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ABSTRACT

A second bimonthly report describes progress made on six tasks enumerated in earlier reports and specifically points out three new issues raised by the demonstration: the question of the use of telecommunication for other than educational purposes, the discrepancy between the project's concept and reality, and the usefulness of a project for native villages to urban adults. Also documented are historical events of the two-month period, steps taken to measure village involvement and television use, methods chosen to select four native villages for intensive study of the demonstration's impact, and a procedure for measuring the postdemonstration effects. The schedule for the next two months is listed. Appendixes include documentation methodology, the documentation filing system and an operator's training guide. (SK)

STUDY OF EDUCATION SATELLITE COMMUNICATIONS DEMONSTRATION -**ALASKA**

2nd BI-MONTHLY REPORT



Prepared for:

National Institute of Education 1200 Nineteenth Street, N.W. Room 632 Washington, D. C. 20203

Prepared by:

Practical Concepts Incorporated 1030 Fifteenth Street, N.W. Suite 940 Washington, D. C. 20005

December 1, 1974

US DEPARTMENT OF HEALTH,

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SECTION I

INTRODUCTION

A. <u>REPORT CONTENT</u>

This second bi-monthly report chronicles PCI's efforts to gather and organize information that will allow us to assess ESCD's impact on people and organizations (Figure I-1). The first bi-monthly report enumerated the six tasks to be performed and the accomplishments of this period are discussed within their context:

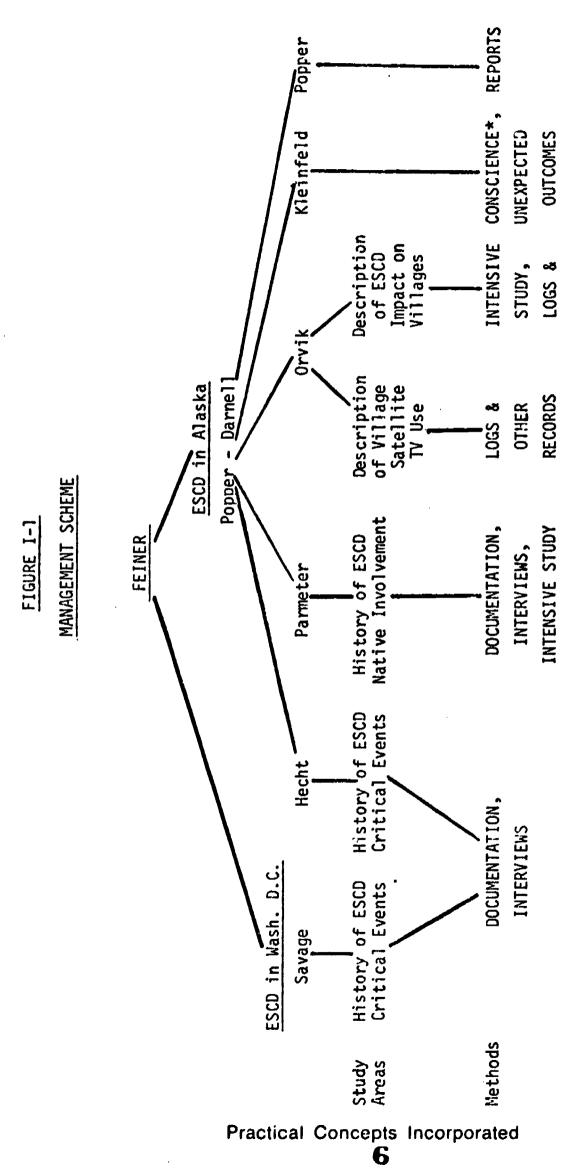
- 1. A history of critical events dealing with the demonstration, emphasizing the interrelationships among agencies, groups representing consumers and village residents;
- 2. A history and description of village involument in the ESCD process;
- 3. A description of availability and utilization of satellite TV technology in the villages;
- 4. A description of the impact of the demonstration on village residents and on village institutions;
- 5. A description of post-demonstration effects;
- A description of unforeseen effects, both positive and negative.

Section II of this report, "History of ESCD Critical Events", deals with the history gathering efforts of task 1 above, both in Alaska and in Washington, D. C. Accomplishments of this period are:

- a. Ordering of Washington materials and interviews to structure a "First Cut Chronology of Critical Events (Decisions)";
- Development of a filing system that ensures rapid access to documents and interview notes (Appendix B);
- c. Listing of all contacts made to date, their association, and notation of documentation received;
- d. Listing of all documents gathered and presently filed at CNER along with title, author, institution, etc. (Appendix B).



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* Dr. Judith Kleinfeld has the responsibility of making sure we do not overlook important issues and unexpected outcomes of the demonstration.

RECORDS

OTHER



Section III, "Village Involvement in ESCD Process" refers to task 2 above. Major accomplishment in this area deals with attendance at Consumer Committee meetings. The material from these meetings are in the CNER file and will be reported in context when all relevant information has been gathered.

Section IV, "Description of Village Satellite TV Use", correlates with task 3 above. The major accomplishment of this period has been the arrangement with the Governor's Office of Telecommunications (GOT) to use their Utilization Aides to help gather information of interest to our effort, thus expanding our information input beyond the Case Villages.

Section V, "Description of ESCD Impact on Villages", refers to task 4 above and represents the area of major emphasis during this reporting period. Accomplishments are summarized below.

- a. Planning of Intensive Study of Case Villages:
 - Selection criteria for Case Villages (comments and recommendations from NIE are encouraged and desired);
 - Selection of Case Villages and alternates;
 - . Design of the intensive study to be conducted on Case Villages.
- b. Actions Taken to Implement Intensive Study:
 - Identification and interview of students from Case Villages who could be used to perform systematic interviews;
 - Initiated actions necessary to establish "on-site" Native Alaskan interviewers in Case Villages -- Tanana interviewers on-board, remaining villages to be set by mid-December;
 - . Arranged for extension of study to the Fairbanks Public Schools.
- c. Observation of reception of "Programs" by students at the Tanana Community School.



Section VI, "Description of Post-Demonstration Effects", refers to task 5 above. The controversy between the State/State groups and RCA Alascom/Globecom regarding the future of telecommunications in Alaska is raging hot and heavy and the ATS-6 and its experiments are involved. The story is presented by newspaper clippings -- an "unobtrusive" (unsolicited) technique which is a measure of true impact.

Section VII contains a statement of "Plans for the Next Two Months".

B. NEW HIGHLIGHTS

In the course of our contact with involved individuals and reviewing documentation gathered a number of issues have surfaced which will bear watching and may become important to pursue during this demonstration. They are:

- 1. Because the source of funding for the ESCD comes from NIE it is logical to look at communication in terms of educational needs. Telecommunications, however, can satisfy many other needs and is considered central to the issue of local control of the total life of the community. Consider that the social deficit of the villages due to lack of adequate communications may not permit local people to adequately define educational needs before the total social deficit is understood. Therefore, by providing educational telecommunications at this time are we fostering externalization and short-circuiting of the process of local control? Should village telecommunication needs be fulfilled first, and then the education requirements met along with other social needs in the process of totalizing village control over their lives?
- 2. According to a number of persons, the transformation of the educational program from conception and objectives into physical reality has become lost in the translation process. This information has been relayed by those hired to do the programming, and discussions at Consumer Committee meetings seem also to indicate this to be so. It appears to us to be important to determine first what happened to the original message and second, how did it happen and what can be done to avoid it?
- 3. The programming was designed for Native people in the context of village life. How useful is this programming for adults in urban settings?



C. POTENTIAL PROBLEM

The mass of information gathered both in document form and notes of contacts made has pointed up the complexity of the history. Even a cursory reading points up discrepancies in stories told. Further, the change in the State administration presages a change in the structure internal to Alaska. Both these factors will contribute to the difficulty of compiling an accurate history.



SECTION II

HISTORY OF ESCD CRITICAL EVENTS

The collection of historical documentation, both written and interviews, is essential to identify those factors that shaped the Educational Satellite Communication Demonstration (ESCD), determine its impact on people and organizations, and identify the issues that will guide future educational experiments involving telecommunications. The effort has been divided into an Alaskan and a Washington component with the Center for Northern Educational Research (CNER) and Mr. Adrian Parmeter assuming major operational responsibility for data gathering in Alaska. PCI retains direct (operational) responsibility for data collection in Washington as well as its responsibilities for overview.

Briefly, the procedure being followed at both Alaska and D.C. locations is:

- 1. Make initial contact with persons involved with the ESCD and others recommended by them, collecting documentation that they consider appears to be relevant;
- 2. Historically order these documents, merging the Washington and Alaskan components at some later time;
- 3. Initially identifying critical events (decision points) and align them chronologically:
- 4. Check for discrepancies between decisions and the documentation;
- 5. Identify gaps in knowledge and formulate a structured approach to follow-on interviews and the search for documents.

A more thorough explanation of the rationale for the Documentation-Interview Cycle is included (Appendix A).

This section contains a distillation of initial contacts and documents reviewed in the Washington sector. This information has been analyzed and presented as a listing of critical events (decision points). Detailed notes have been taken but are not included here nor have any conclusions



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been drawn. It is too early in the cycle and could seriously damage the relationship established with key people contacted. The detailed information is available to the Educational Policy Research Center (EPRC) and NIE on request.

This section also contains a listing of all people contacted thus far -the majority being in Alaska. From the list contained here it is obvious
that a great deal of information and documentation has already been
collected. The sorting, filing and historical ordering of the Alaska
component represents a difficult and time consuming effort. Therefore,
chronological ordering of critical events in this sector cannot be compliced before the end of December. Information relative to this material
is available to EPRC and NIE on request.



A. FIRST CUT CHRONOLOGY OF CRITICAL EVENTS (Washington Perspective):

- 1968 Alaska interest in satellites evident initial contact with Messrs. Buck and Northrip.
- 9/70 First indication of an HEW commitment to support the preservation of satellite frequency for social experiments -- HEW Secretary Elliot Richardson letter to Dean Burch (Federal Communications Commissioner).
- Tone and scope of Alaska Educational Broadcasting
 Commission (AEBC) interest in satellite communication
 set -- "A Plan for the Development of Educational Telecommunications in Alaska: Report of a Study Conducted
 by the National Association of Educational Broadcasters
 (NAEB) for the AEBC".
- 19/70 HEW commits to ATS-F demonstration by promising to provide the ground environment -- letter exchange between Secretary Richardson (HEW) and Mr. Macy, President of the Corporation for Public Broadcasting (CPB) and Dr. G. Lowe, Associate Administrator of NASA.
- 4/71 HEW and CPB submit proposal to NASA for social service delivery experiments on ATS-F -- written document by A. D. Little, Inc.
- First contract awarded by Office of Education (USOE) to support planning for satellite experimentation (awarded to Federation of Rocky Mountain States [FRMS]).
- 6/71 World Administrative Radio Conference (WARC) agreement to allocate 2.5 GHz for broadcast via satellite.
- 7/71 Coordination with Alaska established.



1/72	Creation of the National Center for Educational Technology (NCET).
2/72	\$35,000 grant awarded by USOE to Bob Arnold, AEBC letter from Marshall Lind, Alaska Commissioner of Education to Dr. Adolph Koenig, Education Program Specialist, Division of Educational Technology.
6/72	Department of Education, Alaska (DOE) looks to hire full time person to gather and organize input from educational activity letter from Marshall Lind to Adolph Koenig.
9/72	\$50,000 contract to AEBC from Dr. Horley's office to develop plans for educational satellite experiment in Alaska.
12/72	AEBC plans submitted to HEW.
12/72	Revised proposal requested by NCET by mid-February 1973.
1/73	NCET requests an Alaska spokesman.
1/73	Governor of Alaska establishes the Office of Tele- communications (GOT).
2/73	Charles Northrip appointed satellite experiments coordinator for State of Alaska.
7/73	Alaska project funding transferred from NCET to the National Institute of Education (NIE).
8/73	New program plans submitted by GOT. Funds running low and need for programming urgent letter from Charles Northrip.
10/73	First site visit headed by Dr. Lawrence Grayson.

12/73 Contract awarded by NIE to GOT for \$650,000 -- with conditions.

4/74 Second site visit lead by Grayson.

7/74 NIE awards additional contract funds (approx. \$650,000) to GOT -- interview with Grayson.



B. CONTACTS MADE AND DOCUMENTS COLLECTED

1. Documents Collected

Recognizing that the first pass at document collection will be made before identification of all key issues, a filing system has been devised which will permit easy access to those documents. They are filed primarily by organization with key aspects as subheadings. This system will be reviewed periodically as issues are formulated and tested to ensure accessibility to appropriate back-up documentation. An outline of the filing system is included in Appendix B.

CNER is presently the repository of all documentation collected since the vast majority of pertinent material was gathered in Alaska. Dr. Kathryn Hecht has been assigned responsibility for the documents and joint responsibility with Roger Popper for the "History of Critical Events". In Washington, D.C. where the persons and files are within easy reach, few documents have been reproduced. The cooperation of those contacted has been excellent and their files are accessible at any time. A list of documents which have been read is kept at PCI headquarters. Documents which are required by Dr. Hecht will be requested and copies furnished.

A list of all documents stored at CNER and a list of documents collected thus far in Washington are contained in Appendix B.

2. Persons Contacted

The following table (Table II-1) indicates people contacted thus far by the PCI/CNER team. Systematic interviewing has not begun and can only be accomplished after gaps in present information are identified and specific questions formulated. The objectives of our contacts to date have been to:

- a. Obtain readily available documents;
- b. Gather background on ESCD, i.e., who has been most involved and therefore is most knowledgeable.



Where conversations have been substantive, extensive notes were made. In general, the notes are available to NIE and EPRC on request.

Because interviews of Native villagers, attendance at Consumer Committee meetings, etc. are considered of major importance, Adrian Parmeter has been assigned primary responsibility for this sector. He will compile and organize this information. Presenting the data and conclusions reached is a joint PCI/Parmeter task.

3. <u>Viewing ATS-6 Alaska Educational Programs</u>

The ability to intelligently talk with persons involved in the demonstration requires familiarity with the program material transmitted. One of the difficult tasks which confronts us is to attempt to obtain "true" feelings about the role of telecommunications in Alaskan education without content inserting a bias one way or the other. Therefore, PCI and CNER personnel have spent considerable time viewing programs from the KUAC video room and from classrooms in the ESCD villages. The following lists those who have been involved and the number of programs watched. PCI Washington-based personnel will be able to "watch" at NIE in the near future.

Team Members	# Programs Watched
Hecht	6
Popper	7
Orvik	4
Parmeter	4
Porter (EPRC)	6



TABLE II-1 INITIAL CONTACTS BY STUDY TEAM

Study Team Member: <u>Adrian Par</u>	meter					
Person Contacted	Reason Contacted	Documentation				
Norman Hamilton	NWREL, in charge of ATS-6 contract	Notes				
Kelly Simeonoff	Native Project Coordinator for Indian Health Service	Notes				
Glenn Stanley	University of Alaska expert on telecommunications	Notes				
Robert Arnold	Early key participant in ESCD	None				
Roger Lang	Alaska Federation of Natives expert on telecommunications	None				
Meetings Attended	Location	Documentation				
General Session, ATS-6 Consumer Committees	Juneau	Notes, Minutes				
"Alaska Native Magazine" Consumer Committee Meeting	Fair banks	Notes, Minutes				
Hearings of Interim Committee on Problems of the Unorganized Borough, Topic: Satellite Communication	Anchorage	Notes, Writter Testimony				
Study Team Member: Roger Popp	<u>er</u>					
Meetings Attended	<u>Location</u>	Documentation				
Satellite Communication Seminar, Robert P. Merritt, Leader	University of Alaska, Paper by Fairbanks Merritt					



Table II-1 (Cont.)

Study Team Member: Kathry	n Hecht	
Person Contacted	Reason Contacted	Documentation
Duncan Read	Former ATS-1 Director	None
Robert Arnold	Former Alaska Educational Broadcasting Commission Director	Yes
Charles Northrip	Governor's Office of Telecommunications	Yes
Charles Buck	II	None
Rex Taylor		None
Catalino Barril	11	Yes
Dr. Carolyn Brown	Local evaluator for Stanford	No [see D. Foote below]
Dr. Martha Wilson	Head of Health Demo	Requested-not yet received
Kelly Simeonoff	Assistant to Dr. Wilson	II .
Walt Parker	Evaluator - ATS-1	II .
Marv Weatherly	Director, AEBC	None
Dorik Mechau	Anthropos - possible internal evaluator	Yes
Gary Holthaus	н	None
Ernest Polley	State Department of Education (ATS-6 Planner)	Yes
Mary Lou Madden		Yes
Norman Hamilton	NWREL, in charge of ATS-6 subcontract	Yes
Holly Bruggeman	NWREL - program designer	None
Bernadine Featherly	ii .	None
Jack Peterson	Project Wales evaluator	Yes



Table II-1 (Cont.)

المناف والتعادي والتراكي والباطن والتراق والتراك والتراك والمناول والمناطن والمناط والمناطن والمناط والمناط وال	<u> </u>	
Ralph Liddle	State Department of Educa- tion, producer of teacher inservice programs for ATS-6	Yes
Dennis Foote	Health Demo evaluator - Stanford	Yes
Glenn Stanley	University of Flaska, technical involvement in ATS-1 and ATS-6	None
Burt Cowlan	AID study on ATS-6	Yes
Karl Jack	Alaska Federation of Natives Health	Not yet received
Joe Notaro	Assistant to K. Jack	Not yet received
Sam Kito	Doyon Regional Corporation	None
Roger Lang	Alaska Federation of Natives	None
John Shively	H	None
Gordon Jackson	#	None
Emil Notti		None
Stanley Friese	State Operated Schools	None
Dave Osterback	н .	None
	National Educational Association	None
Study Team Members: Helen Sa	vage and Al Feiner	
Person Contacted	Reason Contacted	<u>Documentation</u>
Lawrence Grayson	National Institute of Educa- tion, Alaska Satellite Project Officer	_
Kevin Arundel	NIE, Task Force on Technology and Productivity	II .
Arthur Melmed	NIE, Chairman, Task Force on Technology & Productivity	u
<u> </u>		



Table II-1 (Cont.)

Albert Horley	HEW, Director of Telecom- munications Policy	Yes, access to files, notes
Phil Balazs	HEW, Office of Telecommuni- cations Policy	11



SECTION III

VILLAGE INVOLVEMENT IN ESCD PROCESS

Information on village involvement in the ESCD process is extremely important because of the insight it can provide relative to the Federal and public cooperation so essential to the success of any experiment and/or demonstration.

During this trip to Alaska, Mr. Parmeter attended the <u>last</u> general session meeting of all the Consumer Committees on October 31. In addition he was able to attend a meeting of the Alaska Native Magazine Consumer Committee (November 13) and conduct interviews with various Consumer Committee members.

Many notes were taken. However, because of the sensitive nature of subjects discussed and the unpolished form in which the notes were taken, they cannot be reported at this time but have been filed. The information they contain must be incorporated with that from other sources before the results can be reported. The rough notes are, in general, available to NIE and EPRC staff for inspection on PCI's premises. Some of the sensitive issues addressed were:

- The wisdom of discussing Native Regional Corporation affairs "on-the-air";
- 2. The difficulty of getting "grassroots" Natives to participate on the Alaska Native Magazine.



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SECTION IV DESCRIPTION OF VILLAGE SATELLITE TV USE

Work on village use of satellite TV did not begin until November. Technical difficulties until last month have precluded sufficient usage to gather even preliminary data. During that time however, we have been discussing with the Governor's Office of Telecommunications ways to use their Utilization Aides to meet both the objectives of GOT and of the demonstration study. The description of this task contained in our first bi-monthly report shows that there are a number of common data elements. Therefore this information can be obtained by the Utilization Aides with minor revision of their job description. These revisions have been arranged with GOT and information should start coming in shortly. We are arranging for the Utilization Aides to collect Native vs. non-Native attendance for the Alaska Native Magazine. Unlogged information, such as language choice, is recorded centrally and is available. This arrangement has minimized the amount of information which must be collected independently in the case villages.

Figure IV-1 shows the ATS-6 Daily Log used by the Utilization Aides. The "Operations Training Guide" given to the Utilization Aides contains information and instructions for minimal understanding and maintenance of the equipment [Appendix C].

Log information gathered will be summarized and presented in accordance with the study are "specifications".

At this early date we know that the ATS-1 "interaction channel" is received poorly so that village questions for the Alaska Native Magazine are understood only part of the time. This deficiency is being studied and it is hoped that it will soon be corrected.



FIGURE IV-1

Operations /	(Persons)	this form)	
	ATS-6 DAILY LOG	Community	

nede section 1									COF	Y	AV/	M	BL	E	Yatching
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Audit															(4)
Radio Ouality (4)															
TV Sound Quality (4)			-												Excellent
TV Picture Quality (3)															(3) 1. Exc
							_								
Pregram Meter Received (1) Reading (2)															
Time On															Notes:
De te				-		•	2	3							

(1) Yes or No

(2) Front Panel factor On HP

Receiver 0-30

Not Perfect But Still O.K. Not Good But Can Walch

Hard To Wateh

Slightly Nolsy Or Distorted

Noisy Or Distorted But Can Understand

Hard To Understand 5. Cannot Understand

Adjustments Make, Mone Detailed Description Of T. V. On Sound If (6) Equipment Problems, Antonna

Required. Use Back of Form If More Room's Needed For Comments.

SECTION V

DESCRIPTION OF ESCD IMPACT ON VILLAGES

The most intensive efforts during November were concentrated on assessing ESCD impact on villages. During this report period PCI/CNER planned the intensive study of Case Villages. We set up the mechanisms for gathering information from the Case Villages (and as many other villages as time and funds would permit) and for sampling reaction to programs within the Case Villages. These items are covered in Roger Popper and Adrian Parmeter's trip report included here.

A. SELECTION OF VILLAGES FOR INTENSIVE STUDY

It is not possible to pick a sample of ESCD Alaskan Native villages which would be representative in any formal sense of Alaskan Native villages in general, or of the villages in the demonstration. Therefore villages will be picked that can provide answers to important educational issues. As of this writing, the Case Villages selected are those listed below:

1. Tanana

Chosen because of its status as a center for villages in the vicinity, particularly with regard to education. Services offered by Tanana are:

- a. A Regional High School;
- A Survival School which teaches traditional Native skills as an alternative to conventional, white-oriented high school;
- C. A "Center for Cross-Cultural Education" run by Mr. Howard Van Ness, which offers various programs for surrounding villages;
- d. A Regional Hospital.

2,3 Aniak and Chauthbaluk (Little Russian Mission)

Chosen because they are near the town of Bethel, where there is already a locally controlled TV network serving villages similar to Aniak and Chauthbaluk. We suspect that proximity



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to Bethel may represent a model for using communication systems like the one in the demonstration. Therefore, reaction to satellite TV and ideas about using it may be particularly valuable.

4. Angoon

Chosen because it represents Southeast Alaska. In this area the median educational level is high relative to Native Alaska (see Figure V-1). We suspect, therefore, that Natives of Southeast Alaska are sophisticated about education, and may have good ideas about how Native Alaskans can use satellite TV to good educational advantage.

5,6 Petersburg and Fairbanks

Chosen because they represent redium and large-size Alaskan towns with relatively large white populations. White reactions to, and ideas about, satellite TV are important, because future systems will serve all Alaska.

Additional possible Case Villages, for a variety of reasons, are Allakaket, Craig and Klawok. We are considering additional Case Villages at this point so that we will not be caught short if one or more of our original choices do not work out. Appendix D presents brief profiles of all actual and potential Case Villages.

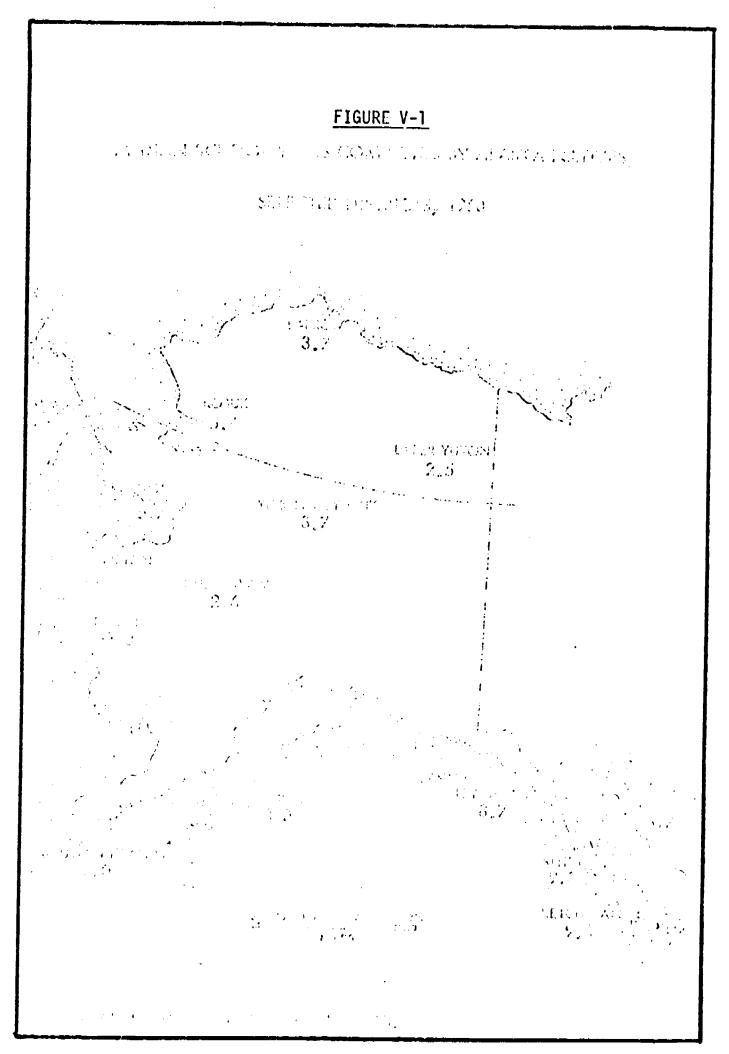
B. INTENSIVE STUDY APPROACH

Concentration on four villages to represent a cross-section of populations and environments which can be generalized for a majority of the Native populations in Alaska is tricky. Choice of the observation methodology is equally critical and improperly performed can result in zero or wrong information. It was concluded that the most acceptable approaches were first, to hire competent Alaskan Native residents of the Case Villages to record reaction to the demonstration within the villages and second, to hire students at the University of Alaska in Fairbanks who come from the Case Villages to make periodic trips and perform systematic interviewing. Details of the job description for the preferred (first) approach are presented later in this section. The preferred approach has already been instituted in Tanana and similar arrangements are being made in other Case Villages as of this writing. Comments are invited from NIE as to the selection criteria. Villages presently included as Case Villages were based on these criteria.

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Both Popper and Parmeter visited Tanana, a procedure which is contrary to our normal policy. However, it was deemed necessary on this first village visit in order to attempt a design approach which was applicable to all Case Villages. The following documents present in detail the selected approach to "Intensive Study". The first is a letter from Popper to the local women hired as interviewers in Tanana and the second is a report of Popper and Parmeter's trip, describing how the arrangement specified in the letter was determined.





UNIVERSITY OF ALASKA

FAIRBANKS, 4.454A 99701

November 18, 1974

Miss Shirley Wheeler Miss Ruth Folger Tanana, Alaska BEST COPY AVAILABLE

Dear Shirley and Ruth:

In this letter I have tried to write down the agreement we made when we talked on November 12. If my understanding is different from yours please say so. I will tell you how I can be reached at the end of this letter.

First things first: You will each receive \$500 for work done between now and the end of the Satellite TV Demonstration on May 14. It is probable that your final write-up will take place after the end of the demonstration, in which case the work period would extend to June 1 or so. You may divide the work between you however you wish.

In general terms, the assignment I gave you was to record the reaction among residents of Tanana to the satellite TV demonstration. If satellite TV is to meet the needs of people in the bush - and of Native Alaskans in particular - then we have got to know what people in places like Tanana think about the demonstration; and about satellite TV in general.

Your job, then, is to find out what parents, children, the community in general and teachers are saying and thinking about:

- The "Right On" health program
- The Basic Oral Language Development program
- The Alaskan Native Magazine
- Satellite Television in general.

In addition we are interested in how the people of Tanana would like to see satellite TV used, or how they would use it themselves.

Basic ways to find out the above are:

- Keep your eyes and ears open and jot down things people say
- Actively talk to parents, children, the community in general, and teachers

Miss Wheeler Miss Folger

-2-

November 18, 1974

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The extent to which you actively ask people for opinions is up to you. My guess is that once people find out you are interested in reactions to the demonstration, and in ideas for how to use satellite TV, you will have no trouble finding out what people think. You should make sure the opinions and ideas of children, parents, old people, young people, and all the important sectors of Tanana are represented.

During the course of the demonstration, we will be able to make the above assignment more specific if we communicate regularly. That way I will learn what is and is not possible in Tanana, you will know what I expect from you.

I think we decided on a monthly progress report, which I will respond to immediately. I would expect the progress report to include:

- 1. How is the work proceeding? For example: are people talking a lot about the demonstration, or does it look like you will have to actively ask questions?
- 2. Important events. For example: The village had a meeting concerning satellite TV, or someone threw the TV in the river, etc.
- 3. Problems and questions you have with the work.
- 4. Notes on conversations you have had, or comments you have heard concerning satellite TV, the demonstration, etc.

If you do the above regularly, then the final report will only require summarizing and interpreting,

The first progress report is due on December 20. I will understand if the first report is sketchy, since getting started will probably be slow. Please do not spend too much time on the progress reports. They need not be fancy or particularly neat.

I will visit you at least twice during the demonstration. Once in January or February, and then again near the end.

Remember, if there is anything in this letter you do not understand or agree with, write me.

Best Regards,

Roger Popper c/o Center for Northern Educational Research (907) 479-7184

RP/pt

TANANA TRIP REPORT

Parmeter - November 10-11 Popper - November 10-13

The sequence of tasks reported here are, as of this writing, being repeated in Petersburg and Angoon by Adrian Parmeter, and will be repeated in several days time by Roger Popper in Aniak and Chauthbaluk.

TASKS:

- . Identify and hire Natives to record village reactions to the demonstration;
- . Design job of recording village reaction to the emonstration;
- Check data logs of the Utilization Aide;
- . Watch the Health, English Language, and Alaskan Native Magazine programs on-site;
- . Talk to residents of Tanana and teachers to get a feel for how the demonstration is perceived.

For a brief profile of Tanana, see Appendix D. Special features of Tanana are: a Regional High School, a Survival School which teaches traditional Native skills as an alternative to conventional high school, and a college level program in "Cross-Cultural Education".

Sunday, November 10

We left Fairbanks at 1:30 p.m., and upon arriving in Tanana went to visit Howard Van Ness who runs a program in "Cross-Cultural Education". Some of Van Ness's students end up playing a crucial role in our work in Tanana.

From the Van Ness's we called the Tanana Utilization Aide, Helene Carlo, and asked for a meeting. We tried to talk to her that afternoon, but as it turned out we had to wait until the following morning.

Monday, November 11

Early Monday morning Popper went to visit Bob Carnahan, principal of the Tanana Community School which also includes the Regional High School.

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The purpose of the visit was to ask permission to watch the Basic Oral Language Development program, and the "Right On!" health program, which were to start at 10:30 a.m. in the 1st-2nd grade classroom.

Mr. Carnahan explained how he video-taped all programs (unless the machine was in use elsewhere) to accommodate his scheduling and to save programs for later use.

At 9:00 a.m. Popper and Parmeter met with Helene Carlo, the Utilization Aide. She was accompanied by Shirley Wheeler who is one of Van Ness's students and was a Native member of the Consumer Committee for the now defunct Early Childhood program. We explained our general interest in hiring someone to record Tanana residents' reactions to the demonstration.

We learned that the Alaska Native Magazine had started with only 3 or 4 in attendance and had mushroomed to 50 the previous Tuesday night. They said part of the reason was that a sign had been put up in the Northern Commercial store announcing "Live TV". Either Helene Carlo or her sister Eileen, who is Van Ness's secretary, put up the sign.

At 10:30 a.m. Parmeter and Popper entered the 1st-2nd grade classroom of the Tanana Community School to find that the room was also full of 3rd graders. The 1st-2nd grade teacher, by the way, is Mrs. Carnahan, the principal's wife.

The following are Popper's notes on the children's reactions to the programs:

- During "Tune-up" the set was receiving Alistair Cooke's "America";
- About 2/3 Native and 1/3 white children were present;
- . "Right On!" health program --
 - At the end of the opening song some children raised their fists and shouted "Right On!" along with the children on-screen;
 - They are very attentive to the puppets (Rex the Moose and Charlie the Beaver, etc.), and jump at every chance to answer back to the TV set;





- They all cheered, or booed maybe, at the appearance of the "Germ" puppet, a pink-orange ball with a mouth and stringy things hanging all over it;
- There was lots of movement, of course, but no signs of boredom until a human nurse started giving health advice. One topic was how to compute a wind-chill factor.

Basic Oral Language Development --

- A 5-10 minute exercise-break between programs;
- The third graders didn't stay because the program had proven too easy for them. In other villages where English is spoken less, this may not be true;
- B.O.L.D. is videotaped to use with kindergartners;
- The eagerness of children to answer back and sing along was even more pronounced than for "Right On!".

Tuesday, November 12

Parmeter left for Fairbanks to attend the last Consumer Committee meeting for the Alaska Native Magazine, and Popper stayed to set up the Intensive Study of several Case Villages, and to view the Alaska Native Magazine in-situ. Popper talked with several people about hiring interviewers, and soon realized that his best bet was to:

- . Design the work in such a way that Howard Van Ness could give credit for it;
- . Hire two people instead of just one.

To make a long story short, Shirley Wheeler (an Eskimo) and Ruth Folger (an Athabaskan), both students of Van Ness, were hired. A letter which describes the agreement reached in Tanana has already been presented.

On Tuesday evening Popper viewed the Alaska Native Magazine at the community school. There were about 25 in attendance, including 6 or 7 children. Popper checked with the Utilization Aide to see how the records were kept and found them in order.



Wednesday, November 13

Popper met with Sandy Hamilton, an ex-bush school teacher living in Allakaket, a village to the north of Tanana. Sandy's wife, Stella, is an Eskimo, and is the Utilization Aide in Allakaket. She is keeping a diary of the demonstration and we are looking into the possibility of paying her for it.



STUDY OF ESCD IN FAIRBANKS PUBLIC SCHOOLS

On November 21, Jim Orvik and Roger Popper met with Marlin Hulett, Director of Education for the Fairbanks, North Star Borough School District to talk about extending our study to schools in Fairbanks. Issues raised were:

- 1. If there is a communications satellite broadcasting educational programs to rural schools, urban schools should be able to take advantage of the technology and programs also;
- 2. It is important that we assess white student reactions to programs designed for Native children in the bush;
- 3. It is important that we find out whether programs designed for Native children in the bush are also appropriate for Native children in an urban setting.

Mr. Hulett said he would be happy to cooperate in our efforts to address the above issues, and gave us the name of a Mr. Albert Ivy, a Native administrative intern with whom Popper had already been in contact. Mr. Hulett said he would instruct Mr. Ivy to help us. The first step is making the rounds of Fairbanks schools to explain our intentions to School principals. Our efforts in Fairbanks will probably consist of interviews with teachers and observations of student reactions to ESCD programming.



SECTION VI

DESCRIPTION OF POST-DEMONSTRATION EFFECTS

The potential importance of satellite communications to the State of Alaska has been noted in PCI's reports and in its proposal to NIE earlier this year. In the Statement of Work included in the first bi-monthly report, great care was taken to detail important issues in this area. It was recognized that this might be an area where major impact would be felt -- not only in education but also state-wide. Included under the specifications for "Description of Post-Demonstration Effects" were the following:

- 1. What is the impact of the demonstration on planning relative to satellite communication in Alaska?
- 2. What is the impact of the demonstration on planning relative to non-satellite media?

As a rule, such high level impact would be expected after the demonstration rather than during it. However, the communications controversy in Alaska has been going on for many years and the confluence of events has been such that the ATS-6 might well be the proverbial "straw that broke the camel's back".

- RCA was chosen by the State of Alaska as their "carrier of record" because they promised extensive "bush" communications;
- 2. Only 47 of some 142 villages have been provided telephone service to date:
- 3. RCA is late and considerably overrun relative to the plan originally submitted to Alaska and the FCC;
- 4. Alaska Native Land Claims Act has made the Native voice very loud;
- 5. Comsat Corporation has demonstrated reception of commercial TV in Alaska with relatively small earth stations:
- 6. 1974 is an election year;
- 7. ATS-6 is in-orbit and working.



The importance of the issues mentioned earlier can best be measured by what is said and written spontaneously (not under questioning by involved parties). The following articles taken from the Anchorage Daily Times, Anchorage Daily News and Fairbanks News Miner speak very adequately to the heat generated by the communications question and indicate the role ATS-6 and its experiments are already playing -- primarily as a club against RCA Alascom/Globecom.

The articles stand on their own, giving background as well as addressing current issues. They make very interesting reading and those portions which specifically speak to the ATS-6 and the demonstration are bracketed for easy identification. Also bracketed are options presently being discussed by influential parties as to the ultimate remedy to the communications problem. These include:

- 1. Opening up Alaska to many satellite telecommunications companies, thus providing RCA with powerful competition;
- 2. Putting Alaska into the communications business and leasing channels to interested users;
- 3. Buying the backup satellite to ATS-6 from Fairchild.



Anchorage Daily Times

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for eacher 1975.

(See Page 2, Cel. 5)

The state's only bug lares Talkerten and Juneau, in operation now, and two, at Carrier has four care holdings, at Zaldez, Prudhoe bay, Nome and Pethel, under con-STUCTION.

Zi major stations to be built in It proposes to have six addineal major stations and 38 small bush statiens on line ky the end of 1975, with another the next five years. Another 29 proposed to replace, and Poyete the need for, the Air major earth stations are Force's White Airce comted 20 years ago and con-sidered classifier in the satellite menicutions system, construc-

The earth stations will range in cost from \$65,000 to \$1.25

RCA says that 176 commanties of 17 per cent of the state's population are curreny without television.

The fam's two-mole thick RCA's investment won't stop myestment by 1880 could reach

The plan concentrates

Of the carch stations proposition of cell to the field for receive the various spands with additions to the and relevision commore than 100 villages still to Pravily on bringing telephone milhave brigglanger.

Participation of the Charles of the States will breat each water television receptors a la l places the cest of the relation

RCA is currently under fire from the public withins comna Sion wan has constacting an investigation into RCA's failure to complete its bush felephone system program on seite dule.

Medical Stated that VBF telephone facilities are under

properties of tradition

construction in 27 of the list villages now without telephones, it soud to facilities will be composed this

> RCA estimates that by 1950 Alaskans will be making and cells, a substantial merence ever the 18.2 million calls receving 48 million telephane

report and accompanying seven-page summary host the here. With more than \$150 million invested since it took over in 1971, RCA says its

\$270 million,

regulatory bodies, "wiji provide Alaskans with a advance in communications dramatic and unparalleled facilities througheur the state."

He also said that the new

Federal Communications

Commission, elso was presented to the State of Alaska and the Alaska Public Utilities Commission,

presents 'a veritable rexplosion of satellite's technology. These new Esteinte facilities will provide h RCA Alescom President Stephen D. Heller said the plan greatly expanded long lines circuits for telephone service three thout Alaska."

facilities, when approved by

many their plan unveiled yeard to by RCA Alaska -Centramentions, Inc. with strained stations in painted m .. Mer million Satellite com-A picture of a state dorted W. Staff Writer

By Peto, RCA plans to have more than 30 earth stations and says the plan, when scattered throughout the state, implemented, will bring the most modern communications The plan, demanded by the to Alaskans.

2-Anchorago Daily News, Tuesday, September 24, 1974

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Under the original is a self the self of ACS, RCA was read to brought telephone rensies to 1/2 and community the continuously the ord of 1/2 and secondmo only 47 villages to a co The state of the s

Daily News Staff Writer E DUNN LISTON

Some Native leaders say a satellite overhead may be worth more than \$100 cillities proposed for the bush by RCA million in ground communications fa-Aliske Communications, Although they say they have not taken the plan to enough expert sources to establish what it really represents, AFN President Reger Lang and Doyon Regional Corporation Executive Direcfor Sort Kito, say it looks like what they expected.

mat, the plan was nearly three weeks late from the date established for it to after RCA proposed satellite ground A THEY ROOK in size and forertions Commission. It was requested stations for Knahna and Noorvik near he sulfinited to the Federal Communi-Ketzebae.

"This appears to be a plan for terrestrial communications with a smatternie of satellite technology," said Kito. "For quite a bit less than \$100 million

they could put up a sophisticated satellite that would allow very simple ground receiver incidities."

Kite, who worked nine years for RCA provious to his prevent position. He says the plan should address the needs ly inexpensive with a satellite having long-range capabilities, according to of not only tural areas but urben Alaska Ground facilities could be relativeas well

"WHERE IS NO intent on our part to electroment or delay any pert of the program to bring statewide communicutions," Kito said, "But we want to be formation that this system is the most for Alaska with the technology now assured that we in fact have all the inethicient, nivet economic and the best avaniable,"

it represented the ordy levels at which Tang indicated he was interested in better communication statewide because Alaska could be in the same situation as the rest of the United States. "We're already in the worst cco-

nemic situation in the U.S. and we accept that as a standard of living for ourselves," Lang said, "in all other fields of resource development we have re theet between but in communicaliens we have a chance."

RCA ALISCOM new provides long distance telephone service to appreviouteix 181 cites, vidages and military establishments. At present there are 25 communities under censideration for local telephone exchange 7.65% "The question in no mind is net the cent to each construct because we could lick that with a serticion satellite," Ling said "It should not be predicated on local one or need but on being able to provide the commentcations for catching up with the rest of the U.S. and the world,"

Native representatives are expecting tine seen to decrew the system and what it represents to Alaska, Lang says to meet with RCA representatives sendwith the country's Di-centennial com-

.

Anchorage Daily Times

September 29, 1974

RCA Buch Plan Gets Blast

Marvin Weatherly, director of the Alaska Educational Broadcasting Commission, blusted RCA Alaska Communications for its bush communications system, or lack thereof, in a 45-minute appearance yesterday before the interim legislative committee on problems of the unorganized borough.

"RCA is doing a very bad job, a lousy job," Weatherly said.

Weatherly said commission experts are now going over a \$100 million satellite communications plan RCA released last week. "Our experts who have seen the plan say its a rehish of old RCA plans." Weatherly said, adding the plan does not meet the needs of run it Alask it.

He said the plan should be evaluated against the needs of Alaska, but such an evaluation does not exist at the present time.

Weatheriv and he was told by representatives of Fair-child Industries who visited Alassa casher this month that a "crush" meds assessment could be made in 30 to 30 days at an approximate cost of Section 172 of the center and approximate cost of section 172 of the center and approximate cost of section 172 of the center and about the future of Alaska."

Weatherly said 12 Alaskans would be attending a symposition symposium on the state's communications needs next week a Fairchild's Maryland plant. He said he expected those attending "will come back more critical of RCA and more intelligent in their criticisms."

RCA, he further charged is interested only in high density money making floures, with the result that "runal Alaska's getting the short end of the stick in the communications picture."

Anchorage. Juneau and Fairbanks are getting live telesion, he commented. Tout go to a place line Emmonak ... what are they getting? They're going whatever RCA wants to foist on them."

He said he has learned that

Weatherly said he would prefer to wait a year or two longer to get a really good satellite plan. Trather than be suck with RCA's."

RCA currently has a domestic satellite plan pending before the Federal Communications Commission

Representatives it immative groups at the meeting also indicated hav were unhappy with RCA's plan. "If the FCC signs off on the RCA's atellite, it will be in hot water with the Tanana Chiefs." Dan Slaby, research - developer for Tanana Chiefs said, because RCA has not liven them any information on how it will presented emergency medical communications needs.

Weatherly prietly criticized the Alaska Public Utilities Commission for their role in RCA's bush communications systems and the same than the same than the same than the same than the same the least.



Anchorage Daily News

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By DONN LISTON Daily News Staff Writer

The State of Alaska Thursday informed Native leaders it expects to again reject the RCA statewide communications plan which it last turned down in September,

In a Sept. 20 letter to the Federal Communications Commission (ECC), Gov. William A. Egan said that after studying the preliminary draft (of the now public plan), he had determined that claborate terrestial facilities and a satellite such as that proposed by RCA Alaska Communications, didn't reflect understood needs and past promises made by the company.

"IT APPEARS that RCA is designing a satellite plan that will provide maximum domestic service to the Lower 48 and will carry Alaska as a stepchild," said Warren W. Wiley, special assistant to the governor. "The state could have long ago settled for an inadequate system but in all good conscience we would not do it - we will continue to press for an economical system of state side satellite ecommunications."

Wiley indicated that the state has been negotiating for a system since at least 1970 bin RCA is determined to submit plans without craefill cost and design factors, In the September letter, I'gan encouraged Walter H. Hinzhimm, chief of the Corneron Carrier Bareau of the FCC, to make it, other qualified domestic satellite carriers to other prograndis.

"We are alt person to see wall for paythat the major only a first and our extotal needs of Alaska, "Wilty said. "The state wants to work with RCA; we're just asking that if they want to be the long-lines carrier, then they provide an economical system throughout the State."

WILEY SENT a copy of Egan's letter, together with a request to speak with representatives of the Native community to Roger Lang, president of the Alaska Federation of Natives, Wiley indicated a concern that AFN may feel the state is not doing all it can to promote a modern communications

Fgan's letter suggests that RCA is not attempting to recognize special needs of Alaska but is "attempting to adapt a system designed for heavy duty or high density traific to meet the needs of a village of 100 souls."

The letter expressed hope that "RCA was designing a system which optimized the full potentials of serving the conterminous United States as well as Alaska.

"IN MY LETTLER of April 13, 1974. I prged RCA to proceed with what appeared to be such a system." Egan said in the correspondence, "RCA has indicated that it is financially impractical to do so. But my conviction is that it was the State of Alaska's communications needs that played a large part in RCA's receiving favorable consideration in its desire to get into the dolaestic satellite communications business."

The most recent Alaska Communications. Plan submitted by PCA was available three weeks after the deadtine set for submission to the ECC: The plan has our day at 20 and on Sept. 13 Mr. Storen Public Colleges. Commence of the control of the colleges o determine the exact course of RCA's "bush telephone" plan, RCA's agreement to deliver service was a determin-

(Continued on Page 2)

· State will reject

(Continued from Page 1) ing factor in the sale of the Alas' Communications System to RCA Dec. 31, 1970.

The commission instituted the i vestigation as a result of RCA's a parent failure to comply with a requir ment to provide 24-hour telephor service to 142 tutal Alaska commun

ties by Dec. 31, 1973,

Thire years after its takeover the ACS system, RCA appears to he initiated telephone service in only communities, according to the APL order. In its order, the commission at required RCA to respond with speci answers to a number of questions wi in 30 days.

JUNEAU (A 1) - The State of Alarka applicate to hold a few to a plan by the post ROA Copy to institute whomen the crititie communications in the United State 5.

An eide to Cov. William A. Department of the Property of Communications Communication had 40ld RCA P would not any prove its entry had the demication safellity hold units the plan met appreval of the Aircha Public Und the Commission.

RCA and its officers, RCA Alc. La Compas destions, plan to he nell a sischile next year enpublic of transmitting signals from the base Cours to Alech a. It already is using a Canadian safellife, Anix II, to bring live television and telephone service to the late.

The ration's first demestic satellite, Wosian I, was sent up this summer by Western Union, Remarkling what may is begave competition with American Telegiscoe à Telegratal for a share of necessarial over provid-U. and telephone communications in the lower 46.

The Bell system also has anmean ced allows to fairs Caneral Telephone of Electronics in lethanty can much on three other satillities due for leanthing in 10 on and 1976.

Deun's wide said the FCC had notified RCA in July that due to its communications monopoly in Alsolia, any satellite programi would first need state acceptance. RCA allacom is Alaska's only long-distance tel phone carrier.

Meanwhile, Mgan has supposted the ECC research is its designation of RCA as the "corrier of record" for Mas 14, a requiret that could lead to bearings on the compling's operating cortificate.

Movens, R-Alaska to remine cultbrathis year that HCA delay

Instead the company unveil d a plan last menta inclessed to more than 49 sateland Josh (3 of 15 feet in diameter immediate the state. They would be supplemented by about 20 major expensive \$2-fest surflors in 1970.

The conflict steins from bold the cost and effectiveness of the

In the lower 48, MCA would have to error only happendidges in major cites to provide a comme signtions naturally, 3: estimates the cost of earlity 7 0%

the romeduled mid-1575 is when, Egan, Stevens and other cificials proposed ECA topos transporters in its carellies in

adollite dishes and the recalively small market in Algeria.

(Sec STATE, p_{SM} 3).

In a letter rote trad Whater at, Egon on Sopt. 20 received his opposition to HOA's plan for orbiting a sate lite he bestons will be incompatible with great a stations erected in Abriba, and s ome concern prompted Son. Tele

order that adequate signals consisbe transmitted to emphar, year dable ground stations in far not g Cvillages.

Fairbanks News Miner October 5, 1974

STATE...

(Continued from page 1) antenna at between \$1 million and \$1.5 million.

The state, however, already in tolled 19 portable distasmeasuring to feet in detricien to receive signals from NASA's emperimental ANA 6 satellite tomeled in May, Ruch 1640ot dish cost less than \$10,800.

Tother than oreclass larger chines at a library cost to Mindrana Tio to a severe bue jurithment of saturate before it is tenders of to provide a street for

signations indicare into the south of the choice of the country of

shop Dr. Wen't fit." In additions, due to the proposed. orbit of RCA's satelate, he has y take on everyon a common to being activities to communities in the Abolton cham. The companying equaling involved on both. 21 in land at brant cas elect

The povernor's Office of The same and entire the factor of the factor 1. Carlotte Co. 1 47 1 provided to nearly every city and village.

dishert hamywer Air k.

The first dishes can provide 12 volume at a 48 and the vision value to the fact other. tive made circuits and no tetevision, the of Francial.

RCA less storted with to discover whether its person subdive circuitry can bring ni ner proce sizens to the similar autennes, but while the especialists show it may be facts block haro is expensive.

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Anchorage Daily News

Editorial

October 8, 1974

Om views

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Public plun needell

The satellite communications controversy between RCA Alaska Communications Inc. and the State of Alaska appears to have reached the point that neither rankly wanted; public ex-

posure. But that's what has happened.

In the three years since the U.S. Air Force sold its statewide communications system to RCA, the company has been dragging its feet in its promise to meet the state's needs. For instance, only 47 villages have received 24-hour long-distance telephone service — not the 142 villages required under agreement terms. Moreover, RCA Alaska was three weeks late in submitting its satellite plans and did so only after a stern ruling by the Alaska Public Utilities Commission.

Until recently, the state government has not exhibited the kind of londership needed to spur RCA Alaska—a virtual communications monopoly—in meeting his public requirements. The eventual \$100 million plan which RCA Alaska submitted was rejected by the state because of its economics and its inability to meet Alaska's rural communications objectives.

All this is not to say that RCA Alaska ham't had its share of problems in developing a system. It has. To be sure, the old Air Force system was in poor shape, and improving it has been a slow and costly process. In addition, the past three years have been revolutionary ones; technology literally has changed Alaska's communications picture from the mountain tops to satellites.

But now is the time for the strte and KGA - Alaska to insert semething that quickly has been avoided: greater public participation in a master

communications plan.

The natural tendency for a private compage is to where its resolute on a province to be in to this case, are adjusty is where a contration means a link to deal with emergencies, education and health care.



Nations Suggest State Suitellite

By CATHY ALLEN Times Staff Writer

Alaska natives have a plantol bring comprehensive comminication to the Bush and to the heart of the urban centers. It's simply to have the state and federal subsidies put oward buying Alaska's own satellite.

Roger Lang, president of the 1 Alaska Federation of Natives, Inc., and John Shively, executive vice president, have a come up with a blueprint for 1 communication expansion that would combine live i television from the Lower 43. three or four educational channels for teaching in the Bush, medical stations that would allow doctors to consult with urban medical centers and a host of frequencies to accommodate business, legal and land transactions.

"Instead of feeding money into a system that will allow for one telephine in each Bush village," said Lang in reference to recent RCA Communications plans, "why don't we move toward a system that allows for us to grow and zet on the same par with the Lower

48?"

Lang, head of the statewide native lobby, said such a venture could cost anythere from \$15 million to Silv million "But with the surplus money the state will be receiving from the oil off the slope, isn't it time now to start looking to what the needs of the citizens are in relation to that surplus?

Lang said if comprchensive plans aren't made now to decide the state's direction in communications, transportation and in several business. fronts, "the time will come when the money from the people's oil -- and that's exactly what it is - will be pork-barreled to death in the state legislature with everyone wanting a little piece of the action to bring home to his constituency.

In line with this thinking Shively met with Furnish Industries while his work

look at a satellite the company. may have for sale.

"Right now it doesn't work 🤝 and resembles the back of each TV and Shively his park the satisfies that was in he Masa's (Nation if Accountation mid Space Administrating

To Renefit Buch

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Duck-up to the nine-month experimental satellite serving Alaskan Bush communities

The first satellite worked and there was little need to complete the second, but Fairchild is interested. "What we need is to have the satellite launched, which would cost about \$30 million to get a rocket and ali," said Shively. "But, if the military could ris some crucial experimental instrument upon it, there is a chance the launching would be . firee with them Launching it."

A flap has been generated recently regarding RCA Communications plans to expand their Bush service. The private enterprise has applied for federal subsidies which the state has not backed, due prominently to the ruchus native leaders have made over

the RCA plans.

"The beauty about such a plan would be that it would serve the urban and Bash communities. Where the villages are in dire need of health. education and social service. communications, the urbancommunities would have access to the most sophisticated computer equipmeat where land transactions and legal problems entailed in . waiting for the mail system to lease it.

"What we are looking at new is a scope that is more than a glorified Bush radio system that handles emerg incy calls. What those planning the communications' system now are doing is just touching the surface and working one step in front of the dire needs," said Lang.

"When you talk about this new satellite idea, you talk about more than a Bush system; you're talking live TV football plus symphonies from the Doston Pages - you're talking about meeting the needs of everyone tomorrow not just covering your own. Anchorage Daily Times

October 9, 1974

work would be eliminated. . Telephone problems in Fairbanks are another crucial problem," said Lang.

He said that with the recent capital move vote, Alaskans are going to have to realize that it is too expensive to move the capital everytime the population shifts and this could happen often in Alaska, he (said, "What we need is to be) able to work our own totally-Alaska satellite."

This move would not necessarily close out ownership of RCA Communications. as Lang and Shively see a planwhere the company could buy the satellite and the state could

Practical Concepts Incorporated

CA SERGE SE ROSEINCE AD 2-Anchoraga Daily News, Tuasday, October 29, 1974

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BY HOWARD WEAVER Daily News Staff Writer

1 - Py 14

Alaska leaders continued to chip away. Monday satellite, as reveral persons urged the state to operate at RCA Aluscom for plans to serve rural areas by or subvidize the system.

Fersons testifying at a public hearing on satellite communications before the Interim Committee on Problems of the Unorganized Borough, chaired by Sen. George Hohman, D-Bethel, urged an alternative service be used.

"I ADVOCATE setting up a system for estab-Aleska," former Speaker of the House Gene Guess told the committee. "But because of the size of the if all of the users, including the state of Alaska, the lishing telecommunication operations in the state of state and the remoteness, I think we have to face the reality that such a system, if it's going to be completely effective, is going to have to be subsidized by the state. But I feel that subsidy will not be that high, federal government and private industry go together under the same roof and use the same system."

Mary Weatherly, exceutive director of the Alaska cized RCA and called for a non-profit corporation to Educational Broadcasting Commission, strongly criti-

Weatherly detailed state-supported radio and mini-TV stations in outlying areas, but said, "What we don't have is a delivery system from the point of origin for programming and the broadcast outlets.

areas, like Anchorage, Fairbanks and Juneau," its said, "They have labeled the bush a loser. The governor very wisely rejected the so-called RCA Alaska "RCA IS INTERESTED in the high-density Plan. I think most Aleskans also have rejected RCA."

governor has accepted the proposal but as yet no Alaska, Spekesmen for Gov, William A. Egan say the date has been set for the conference between Egan The president of RCA Global Communications, lne, proposed a meeting with top state officials on the company's satellife communications program for and Howard Hawkins of RCA.

Federal Communications Commission asking it to block construction permits for the satellite program, Egan claims the RCA satellite plan will not meet The request followed a letter Egan sent to the the state's needs.

Egan said he will ask Nalive leaders to sit in, on the medius.

WEATHERLY CALLED for establishment of a tion system users to run the setellite plan, " ' servnon-profit corporation made up of rural communica-

'you don't get nothing for the bush unless you goest something to the cities, and we note that to off a ice going to cities as well. "A friend once and a This service for the bush also would allow me live sports and network newscasts for the clini, Hilary Hilscher, communications assistant to it seems to me as though they had been springer to Sen. Ted Stevens, presented testimony on his by "When sateliiter began to look lite a real powdesigned to solve Abelia's communication lems," the testimony said.

our state required would hardly be attractive to a common carrier — it would be just too expressed. "I could see the type and scope of the versite his statement said. "So, I suggested a statement! satellite, one specifically designed for Alaska, termina our special needs."

gaust of Fairchild Industries will answer gue the a Mike Gravel, D. Aluska, scheduled as the first the. For munications will speak at 11:15 a.m. Following a lunch break, Steven Holler of RCA and Engle then Charles Buck of the governor's Office of Teleconat 10 a.m. Sam Kito of Doyon Ltd. will follow and The hearing resumes this morning, with New

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Anchorage Daily Times October 29, 1974

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SECTION VII

PLANS FOR THE NEXT TWO MONTHS

If all goes according to plan, the next bi-monthly report will include:

- A preliminary historical ordering of events leading up to ESCD at the Alaska end;
- A preliminary historical ordering of events with regard to Native involvement in ESCD decisions, with a focus on the Consumer Committees;
- A monthly report from each of the Case Villages describing village reactions to satellite TV, and ESCD events in the villages;
- Log information on attendance, etc. from all the villages in the demonstration;
- A progress report on our study of ESCD in Fairbanks public schools.



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- APPENDIX A. DOCUMENTATION METHODOLOGY



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APPENDIX A

DOCUMENTATION METHODOLOGY

The documentation activity of the ATS-6 PCI/CNER study is geared to yield an output described as a

'...chronology of critical events dealing with the demonstration, emphasizing the interrelationships among agencies, groups representing consumers, village residents." [August 1974 draft]

The documentation activity is also designed to collect information which might not otherwise be preserved or available for study purposes concerning issues which may or may not have been identified at this time.

Given there is: (1) an almost infinite amount of paper which could be collected on ATS-6; (2) limits on time and manpower; and (3) the expected sensitivity of participating agencies, PCI and CNER staff have agreed upon a methodology to achieve the above described output. The reasoning behind this methodology is to make what seemed at first to be an unrealistic task manageable. It is therefore important that all involved in the study understand the steps as outlined in the first bi-monthly report, so that: (1) progress can be made in a systematic, efficient manner; (2) neither time nor manpower will be wasted; and (3) valuable contacts will not be bothered unnecessarily.

The methodology for documentation can be described by the following steps:

1. <u>Initial contacts</u> are made with those agencies, organizations, and persons known to be involved or likely to be interested parties in the Alaska ATS-6 educational demonstration and related activities. At this time, the purpose of the PCI/CNER study will be described. The purpose of this step is to



The methodology is a cycle which is repeated. Not included in the cyclical approach is the necessary step of setting up a system to receive and retrieve the documentation, which will be done by CNER in agreement with PCI and revised as found necessary.

foster understanding of the study's intent and secure cooperation. Also, this step will allow staff to alert those persons likely to have significant documents to save them at the earliest possible time, hopefully keeping loss of information at a minimum.

- 2. Collection of readily available written material begins as soon as possible, often at the same time the initial contact is made in step 1. Often this information is supplied at the choice of the informing agency, those documents such as proposals and reports already in circulation, reported or published. Also, this step includes the gathering of those documents at hand within CNER and PCI.
- 3. The first effort is made at a <u>historical ordering</u> of events from the documents collected in step 2.
- 4. From the historical ordering of events in step 3, information in the documents themselves, and the general knowledge the staff has acquired, a preliminary identification of decision points (critical events) is attempted.
- 5. The first discrepancy check compares the documentation collected to the decision points outlined in step 4, to determine which decision points are backed by information and which are not, and where documentation is available, its adequacy for documenting the identified decision points.
- 6. For those gaps between the critical events and documentation as identified in step 5, a collection of written documentation to fill discrepancies is undertaken.
- 7. Following the additional collection effort in step 6, a second <u>discrepancy</u> check is made.
- 8. The preliminary decision point identification begun in steps 3 and 4 are reviewed with project staff by involved persons (those contacted in step 1) as a validity check.
- 9. Interviews to fill remaining gaps in the chronology; i.e., those critical events for which documentation does not exist, is inadequate or contradictory, are conducted in a structured manner and recorded. The validity check, step 8, is used as a neutral entree to begin interviews.
- 10. New contacts are made as necessary and the process continued until the chronology of critical events is brought up to date.
- 11. The chronology is then kept current.



It should be stressed that the methodology is meant to systematize the documentation process and keep the task within manageable bounds. However, it is not meant to be rigidly applied and "opportunities of the moment" are to be expected and judiciously used.



APPENDIX B. DOCUMENTATION FILING SYSTEM

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APPENDIX B

DOCUMENTATION FILING SYSTEM

This Appendix contains an outline of the filing system which has been developed and implemented at CNER by Kathryn Hecht. Documents are filed primarily by originating organization/agency, with a separate section maintained for literature/research related to ATS-6. The study team feels this system will allow easy information retrieval. The system is adaptable, however, and can be revised as necessary. It will be reviewed periodically as issues are identified, and tested to insure accessibility to appropriate documentation.

A similar filing system has been adopted by PCI for documents collected thus far in Wachington.

Also included in this Appendix is a list of documents stored at CNER and those on file at PCI.



FILING SYSTEM OUTLINE

- 1. Alaska Educational Broadcasting Commission (AEBC)
 - 1.1 Letters
 - 1.2 Program Plan
- 2. Consumer Committees
 - 2.1 Letters
 - 2.2 Membership
 - 2.3 Summary of Meetings
- 3. Department of Education (Alaska State)
 - 3.1 Letters
 - 3.2 Planning Statements
- 4. GOT Office of Telecommunications, Office of the Governor
 - 4.1 ATS-6: Internal Evaluation
 - 4.1.1 Request for Proposals
 - 4.1.2 Anthropos
 - 4.2 Contact List
 - 4.3 Letters
 - 4.4 Program Plans
 - 4.5 Public Information
 - 4.6 Site Visit: Preparation and Reaction
 - 4.7 Utilization Aides
- 5. Health Demonstration
 - 5.1 Alaska Native Health Board
 - 5.2 Evaluation
- 6. KUAC
 - 6.1 Contract
 - 6.2 Public Information



- 7. National Aeronautics & Space Administration (NASA)
 - 7.1 Coordination Meetings
 - 7.2 Public Information
- 8. National Institute of Education (NIL)
 - 8.1 Letters
 - 8.2 Site Visit
- 9. Northwest Regional Educational Laboratory (NWREL)
 - 9.1 Consumer Committee: Preparation for, etc.
 - 9.2 Contracts and Agreements
 - 9.3 Information File
 - 9.4 Letters
- 10. Office of Education/National Center for Educational Technology (NCET) 10.1 Letters
- 11. Practical Concepts Incorporated (PCI)
 - 11.1 Documentation
 - 11.2 Letters
 - 11.3 Memo's
 - 11.4 Proposal and Planning Reports
 - 11.5 Subcontracts
- 12. Programs
 - 12.1 Alaska Native Magazine
 - 12.1.1 Letters
 - 12.2 Basic Oral Language Development (BOLD)
 - 12.2.1 Programs
 - 12.2.2 Teacher's Manual
 - 12.2.3 Teacher's Materials
 - 12.3 Early Childhood Education
 - 12.3.1 Teacher's Materials
 - 12.4 Right On!
 - 12.4.1 Programs
 - 12.4.2 Teacher's Manual
 - 12.4.3 Teacher's Materials





- 13. Syracuse University13.1 Contract
- 14. Miscellaneous14.1 News Releases

Related Literature/Research

- 100. ATS-1
 100.1 Evaluation
 100.1.1 Health Evaluation
- 101. Battelle
- 102. Boeing
- 103. Conferences
- 104. Department of Education
- 105. Literature
- 106. Press Clippings
- 107. Project Wales
- 108. Research
 - 108.1 Agency for International Development (AID)
 - 108.2 ISGER



DOCUMENTS ON FILE AT CNER

1. Alaska Educational Broadcasting Commission

Letter from Bob Arnold to Robert Filep, January 24, 1974

Memo from Bob Arnold to Members, Alaska Educational Broadcasting Commission, Subject: First NASA Coordinating Meeting for ATS-F Planning, October 2, 1972

Memo from Bob Arnold to Charles Buck, Subject: ATS-F Planning: Information/Actions Required, February 8, 1973

Letter from Bob Arnold to Michael Neben plus attachment of letter from Neben dated February 13, 1973; February 15, 1973

Alaska/ATS-F Health/Education Telecommunications Experiment -- Program Plans, December 1972

Principal Objectives of the ATS-F Experiments

2. Consumer Committees

- Lists of Consumer Committee Members: Thlinget Haida Central Council's Region, Association of Village Council President's Region and Tanana Chief's Conference Region, from Northwest Regional Educational Lab, May 23, 1974
- List of Committee Members On: Basic Oral Language Development, Early Childhood Development, Health Education, from Northwest Regional Educational Lab
- Letter from Charles Northrip to . 1 Consumer Committee Members, May 17, 1974
- Letter from Glenn Fredericks to Melvin Charlie, Subject: People Attenting ATS-F Meeting, December 7, 1974
- Health Education, from Northwest Regional Educational Lab, May 9, 1974
- Consumer Committee for Health Education, from Northwest Regional Educational Lab, April 23, 1974
- Basic Oral Language Development Report Consumer Committee Meeting: April 18 -19, 1974, from Northwest Regional Educational Lab, May 8, 1974
- Early Childhood Education Report Consumer Committee Meeting: April 18-19, 1974, from Northwest Regional Educational Lab, May 8, 1974

Memo from Rex Taylor to all Consumer Committee Members, May 22, 1974 Minutes - Consumer Committee Meeting, February 19-21, 1974



- First Educational Programs Consumer Committee Meeting, Rex Taylor, Education Experiment Manager, February 19-21, 1974
- Summary of Activity Consumer Committee Meeting, Juneau, Alaska, February 19-21, 1974
- Consumer Committee Meeting ATS-F Satellite Project, Office of Telecommunications, Juneau, Alaska, February 19-21, 1974
- Memorandum of Understanding between GOT, NWREL, University of Alaska Division of Media Regarding Consumer Committees, February 11, 1974
- Resolutions by Early Childhood Education Consumer Committee
- Minutes of the Consumer Committee Meeting, Early Childhood Education, September 5-6, 1974
- Minutes B.O.L.D. Consumer Committee, Sertember 5, 1974
- Summary of the Health Education Consumer Meeting, Holly Bruggeman (author)
- Staff Debriefing June 6, 1974
- Minutes of Consumer Committee Large Group Meeting, June 6, 1974
- Minutes of Consumer Committee Large Group Meeting, from Northwest Regional Educational Lab, June 6, 1974
- Minutes of Health Education Meeting June 5-6, 1974, Holly Bruggeman (author)
- Minutes of Early Childhood Education Consumer Committee Meeting June 5-6, 1974, Walt Featherly (author)
- Minutes of Early Childhood Education Consumer Committee Meeting June 5, 1974, Walt Featherly (author)
- Minutes of Basic Oral Language Development Consumer Committee, June 5, 1974, Northwest Regional Education Lab

3. <u>Department of Education (Alaska State)</u>

Note from Ernie Polley to Jim Orvik, September 6, 1974

Letter from Ralph Liddle to "Dear Teacher", September 13, 1974

Letter from Ralph Liddle to "Dear Teacher", August 23, 1974

- Telex from Ernest Polley to NIE, October 2, 1974 plus following attachments: telex to Ray Wormwood, NIE from K.M. Rae, 7/12/74; memo to Northrip from E. Polley, Subject ATS-6 Evaluation, 8/23/74; telex to E. Polley from Ray Wormwood, 7/25/74
- ATS/F and Educational Usage Alaska: Phase I Planning Statement, February 1, 1974



4. GOT - Office of Telecommunications, Office of the Governor

- Request for Proposals for Evaluation of Alaska Educational ATS-F Satellite Project
- Letter from Gary H. Holthaus (Alaska Humanities Forum) to Charles Northrip, August 12, 1974
- Letter from D. V. Mechau (Anthropos) to Charles Northrip, September 16, 1974
- A Proposal for the Evaluation of the Alaska/ATS-F Health/Education Telecommunications Experiment, from Anthropos, June 24, 1974
- Contact List Consumer Committee Members
- Letter from Charles Northrip to Dr. Lawrence P. Grayson, Subject GOT report on milestones prior to site visit, March 18, 1974
- Letter from Office of Telecommunications to Dr. Lawrence P. Grayson, Subject Criteria for Judging ... Programs, July 1, 1974
- Alaska/ATS-F Health/Education Telecommunications Experiment Program Plan Revisions February, 1973
- Summary ATS-F Health/Education Telecommunications Experiment, pre-March 1974
- Summary F Health/Education Telecommunications Experiment,
 Marc' 1
- Alaska, S-F Health/Education Telecommunications Experiment Program Plan, March 1974
- Alaska ATS-6 Project Responses, Responses to NIE Second Site Visit, June 18, 1974
- Memo from Catalino Barril to Utilization Aides, September 6, 1974
- Operator's Training Guide for Alaska ATS-6 Educational Experiment Stations, August 1974

5. <u>Health Demonstration</u>

- Letter of Resolution of the Alaska Native Health Board, plus attachments, from Lillie McGarvey (Alaska Federation of Natives, Inc.)
- Evaluation Plan for the Alaska Health Care Delivery Experiment, Institute for Communication Research, Stanford University, January 9, 1974
- Applications Technology Satellite ATS-6, Part I Attitudinal Survey of Primary Health Care Providers Prior to ATS-F Satellite Implementation, Carolyn V. Brown (author)



6. KUAC

Work Statement, Univ. of Alaska, Division of Media Services for Production of ATS-6 Programming, June 14, 1974

Agreement between Office of the Governor, Telecommunications and Univ. of Alaska, Division of Media Services

Letter from Charles Buck to Don Dafoe, Ref. Acct. # 265-2902, June 20, 1974

Alaska ATS-F Experiment Production Budget, April 3, 1974

7. National Aeronautics & Space Administration (NASA)

Fourth Working Coordination Meeting of the NASA/HEW/CPB HET Experiment, ECE/Chief, Systems, Communications Programs (author), February 8, 1973

NASA News - Press Kit, Howard Allaway and Donale E. Witten (authors), May 21, 1974

Applications Technology Satellite-F, New NASA Communications Space-craft to be Launched May 30, May 1974

8. National Institute of Education (NIE)

Letter from Dick Holt to Frank Darnell, July 19, 1974

Composite Review: Site Visit April-May, 1974

Composite Review: Site Visit October 1973

9. Northwest Regional Educational Laboratory (NWREL)

Survey of Needs of Children by the Consumer Committees, February 1, 1974

Proposed Method of Presenting Alternatives to the Consumer Committee Flow Chart of Consumer Committee's Villages

Topics for the Discussion of the Consumer Committees, January 28, 1974 Role and Responsibilities of Consumer Committee

Agreement with State of Alaska, Office of Governor, Office of Telecommunications and NWREL, signed December 18, 1973

Contract Information: Alaska Telecommunications Project, January 21, 1974

Information File, Northwest Regional Educational Lab Letter from Norman Hamilton to Charles Northrip, March 5, 1974

Practical Cencents Incorporated



10. Office of Education/National Center for Educational Technology (NCET)

Letter from Michael Neben to Bob Arnold plus attachment of letter from Bob Arnold dated 2/15/73, February 13, 1973

Letter from Michael Neben to Charles Northrip, Subject: Field Reviews of February '73 Proposal

11. Practical Concepts Incorporated (PCI)

Letter from Helen Savage to Kathryn Hecht, Subject: Documentation, October 18, 1974

Memo from Al Feiner to Roger Popper, July 18, 1974

Memo from Al Feiner to Jim Orvik, October 10, 1974

Memo from Al Feiner to Jim Orvik and Kathryn Hecht, October 15, 1974

Memo from Al Feiner to Roger Popper, Subject: Notes on NIE Contract, July 9, 1974

Memo from Al Feiner to Roger Popper, Subject: Policy Analysis Questions Suggested by NIE, July 9, 1974

Cost Proposal -- Intensive Evaluation of Satellite TV Impact on Four Alaskan Villages, PCI, May 17, 1974

Intensive Evaluation of Satellite Television Impact on Alaskan Villages: Sociological and Technological Implications of Educational Telecommunications, PCI, June 17, 1974

Design for an Analysis and Assessment of the Education Satellite Communications Demonstration: Final Report, PCI, May 17, 1974

Copy of Practical Concepts Incorporated Subcontract - amended August 13, 1974

Copy of Practical Concepts Incorporated Subcontract, revised July 12, 1974

Letter from E. Dean Coon, CNER, plus proposal, July 18, 1974

12. Programs

Letter from Catalino Barril to Cecil Barnes, Subject: Introduction for Alaska Native Magazine and Staff, September 5, 1974

BOLD - Programs I through XXIV, Northwest Regional Educational Lab

Teacher's Manual for Amy and the Astros, BOLD, Bernadine Featherly (author), NWREL, September 19, 1974

Teacher's Overview for Oral Language Development in English, Bernadine Featherly (author), NWREL, March 8, 1974



Teacher's Overview for Early Childhood Education, Walter T. Featherly (author), NWREL

Right On! (Health Education) - Programs 1-53, plus some obsolete programs, NWREL

Teacher's Manual for Right On! Elementary Health Education, Holly Bruggeman (author), NWREL, September 19, 1974

Teacher's Overview for Health Education, Holly Bruggeman (author), NWREL

13. Syracuse University

Design for the Assessment and Policy Analysis of the Education Satellite Communications Demonstration: Phase II Final Report, Educational Policy Research Center, May 20, 1974

Design for Documenting the History, Consequences, and Implications of the Education Satellite Communications Demonstration, Phase II Addendum, Educational Policy Research Center, June 17, 1974

14. Miscellaneous

News Release, Subject: Educational Satellite Communications Demonstration, University of Alaska, September 6, 1974

News Release, Subject: KUAC ATS-6 Satellite Project, September 5, 1974

News Release; Subject: ATS-6 Television Programs, University of Alaska, September 12, 1974

News Release, Subject: Premier Week of ATS-6 Satellite Project, University of Alaska, September 18, 1974

News Release, Subject: State School Board Meets in Juneau, Department of Education, August 16, 1974

Related Literature/Research

100. ATS-1

Village Satellite: An Evaluation of Some Educational Uses of ATS-1 in Alaska, Walter B. Parker (author), July 25, 1974

Health Care and Satellite Radio Communication in Village Alaska. Final Report of the ATS-1 Biomedical Satellite Experiment Evaluation, Osvaldo Kreimer, Heather Hudson, Dennis Foote (authors), June 1974



101. Battelle

Proposed Research Program (Part B: Statement of Qualifications) on Assessment and Analysis of Education Satellite Communications Demonstration Phase III, Battelle Columbus Lab., May 21, 1974

Proposed Research Program (Part A: Technical Narrative) on Assessment and Analysis of Education Satellite Communications Demonstration Phase III, Battelle Columbus Lab., May 21, 1974

102. Boeing

Telecommunication User Alternatives Study - State of Alaska, E. M. Gardiner (author), August 31, 1974

103. Conferences

Northern Communications Conference Record, Yellowknife, N.W.T. September 9-11, 1970

104. Department of Education

State Department of Education - outline of proposal (for future instructional system using telecommunication)

105. Literature

An Educator's Guide to Communication Satellite Technology, Kenneth A. Polcyn (author), Academy for Educational Development, Inc., September 1973

106. Press Clippings

Educational TV Program to Air, Anchorage Daily News, September 20, 1974

RCA Unveils \$100 Million Plan, Anchorage Daily Times, Sept. 21, 1974

\$100 Million Bush Satellite Plan Unveiled, Anchorage Daily News,
September 21, 1974

Space expert urges Alaskans to build communications system, Anchorage Daily News, September 21, 1974

<u>UA medical students learn their craft by television</u>, Fairbanks News-Miner, September 21, 1974



Practical Concepts Incorporated

In National Study -- <u>CNER and Satellite</u>, Tundra Times, September 8, 1974

<u>Egan says there's no satellite plan</u>, Anchorage Daily News,

<u>September 5, 1974</u>

Education Satellites Block Radio Astronomy, Education Daily, page 6, September 30, 1974

Reporters Peek at Satellite Users and Find them Staring Back, Education Daily, page 6, September 26, 1974

107. Project Wales

Television and Social Change on the Bering Strait, R. J. Madigan and W. Jack Peterson (authors), University of Alaska, April 1974 Project Wales, August 1974

108. Research

Broadcast Satellites for Educational Development: The Experiments in Brazil, India, and the United States; Bert Cowlan, Dean Jamison, Kenneth Polcyn, Jai Singh, Delbert Smith and Laurence Wolff (authors), Academy for Educational Development, April 1974

Flow of Communication Between Government Agencies and Eskimo Villages, Gordon S. Harrison, Spring 1972



DOCUMENTS ON FILE AT PCI, WASHINGTON

1. Alaska Educational Broadcasting Commission (AEBC)

A Plan for the Development of Educational Telecommunications in Alaska: Report of a Study Conducted by the National Association of Educational Broadcasters for the Alaska Educational Broadcasting Commission, George L. Hall and Frank Norwood (authors), October 21, 1970

3. Department of Education (Alaska State)

Letter from Marshall Lind to Adolph Koenig, February 24, 1972 Letter from Marshall Lind to Adolph Koenig, June 30, 1974

4. <u>GOT - Office of Telecommunications, Office of the Governor</u>

Letter from Charles Buck to Dr. Lawrence Grayson with proposal from Anthropos, July 12, 1974

Letter from Charles Northrip to Michael Neben with proposal, "Integration of ATS-F and CTS Facilities and Educational Technology for Alaskan Satellite Experiment", April 13, 1973

Letter from Charles Northrip to Lewis Walker, May 18, 1973

Letter from Charles Northrip to Al Horley, June 21, 1973

Letter from Charles Northrip to Robert Filep, June 25, 1973

Alaska ATS-F Planned Activities, July 1, 1973 - June 30, 1974, August 1973

8. <u>National Institute of Education (NIE)</u>

Memo to File from Ray Wormwood, October 31, 1973

Memo from Jerry Sandler to Lawrence Grayson, Subject: Criteria for TV Program Design, July 2, 1974

Memo from Kevin Arundel to Lawrence Grayson, Subject: Review Criteria for Alask Satellite Component, July 2, 1974
Letter from Lawrence Grayson to Charles Buck, July 19, 1974



10. Office of Education/National Center for Educational Technology (NCET)

Memo from Michael Neben to Robert Filep, Subject: Status Report on Alaska Education Telecommunications Project, January 5, 1973
Letter from Robert Filep to William McLaughlin, Regional Commissioner, U.S. Office of Education, Seattle, Washington, January 8, 1973
Letter from Marshall Lind to Robert Filep, January 24, 1973
Letter from Michael Neben to Bob Arnold, February 13, 1973
Memo from Robert Filep to ATS-F User Committee, Subject: Status of Alaska ATS-F Component, February 22, 1973

14. Miscellaneous

Two documents from Al Horley's office regarding the Health/ Education Telecommunications Experiments Technical Fund



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APPENDIX C. OPERATOR'S TRAINING GUIDE



OPERATOR'S TRAINING GUIDE FOR ALASKA ATS-6 EDUCATIONAL EXPERIMENT STATIONS

State of Alaska Office of the Governor Office of Telecommunications Pouch AC Juneau, Alaska 99801

August 1974



<u>General</u>

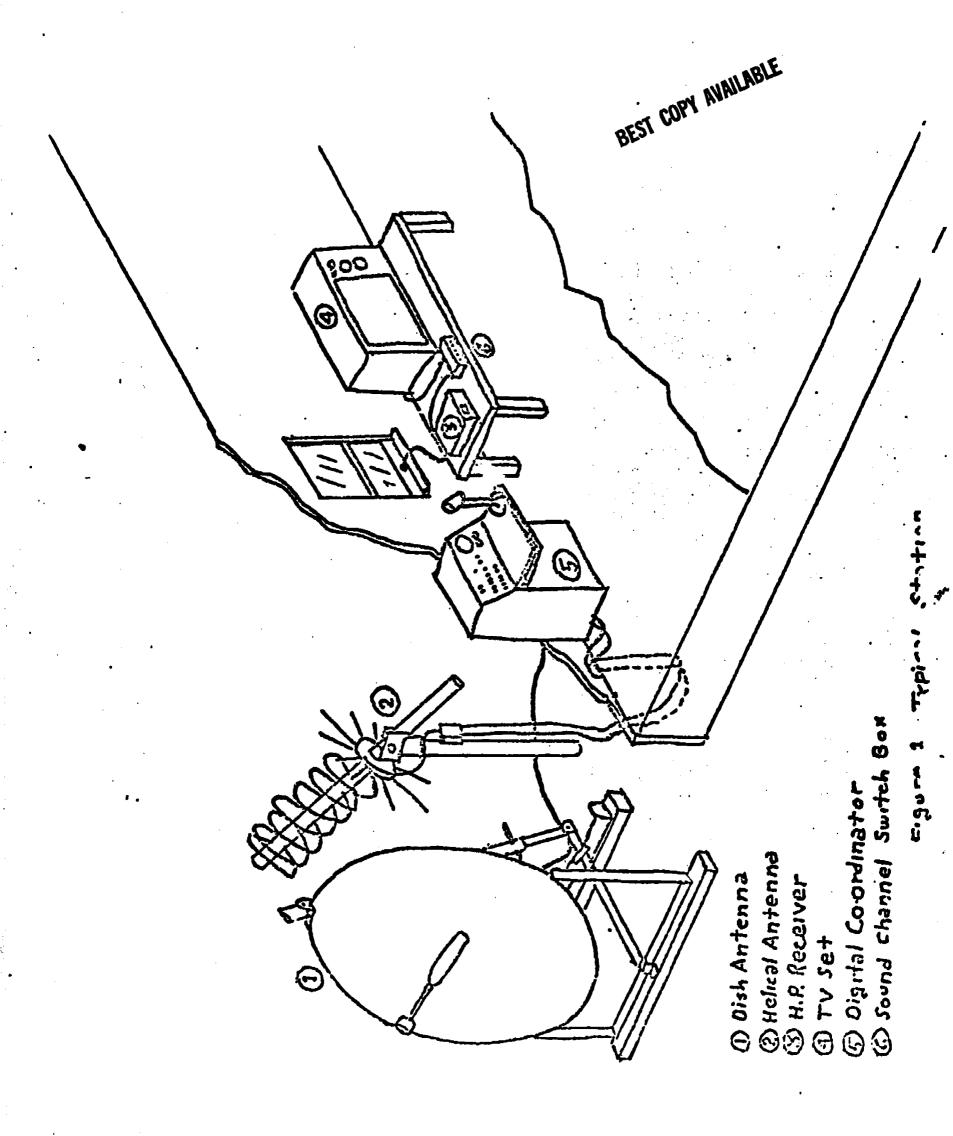
The nineteen ATS-6 ground stations in Alaska are provided by federal funds as part of an experiment in providing instructional television to remote areas in Alaska, the Rocky Mountain States and the Appalachian region.

The satellite being used in this experiment is called the ATS-6. ATS stands for "Applications Technology Satellite," the 6 means that it is number 6 in the ATS series. Actually, two satellites are being used for this experiment; the ATS-6, which transmits the T.V. programs, and the ATS-1, which is used for two-way voice communications between the remote stations and control centers. The ATS-6 is quite different from other communications satellites.

Most communications satellites have low-power transmitters so that it takes huge antennas on the ground to receive the signals. The ATS-6 has a very powerful transmitter so that signals can be received by small antennas like the ten-foot dish antenna at your site. Another characteristic of the ATS-6 is that it sends out its signals in a narrow beam which can only cover a small part of the earth at one time. This is the reason that television can only be received a few hours each week. When the satellite is not pointed toward Alaska, it is pointed at other states which are conducting experiments similar to ours.

The ground stations such as the one you will be operating, are designed to be inexpensive and simple to operate. However, it is important that the operators learn their procedures well and follow them closely if the system is to operate satisfactorily.





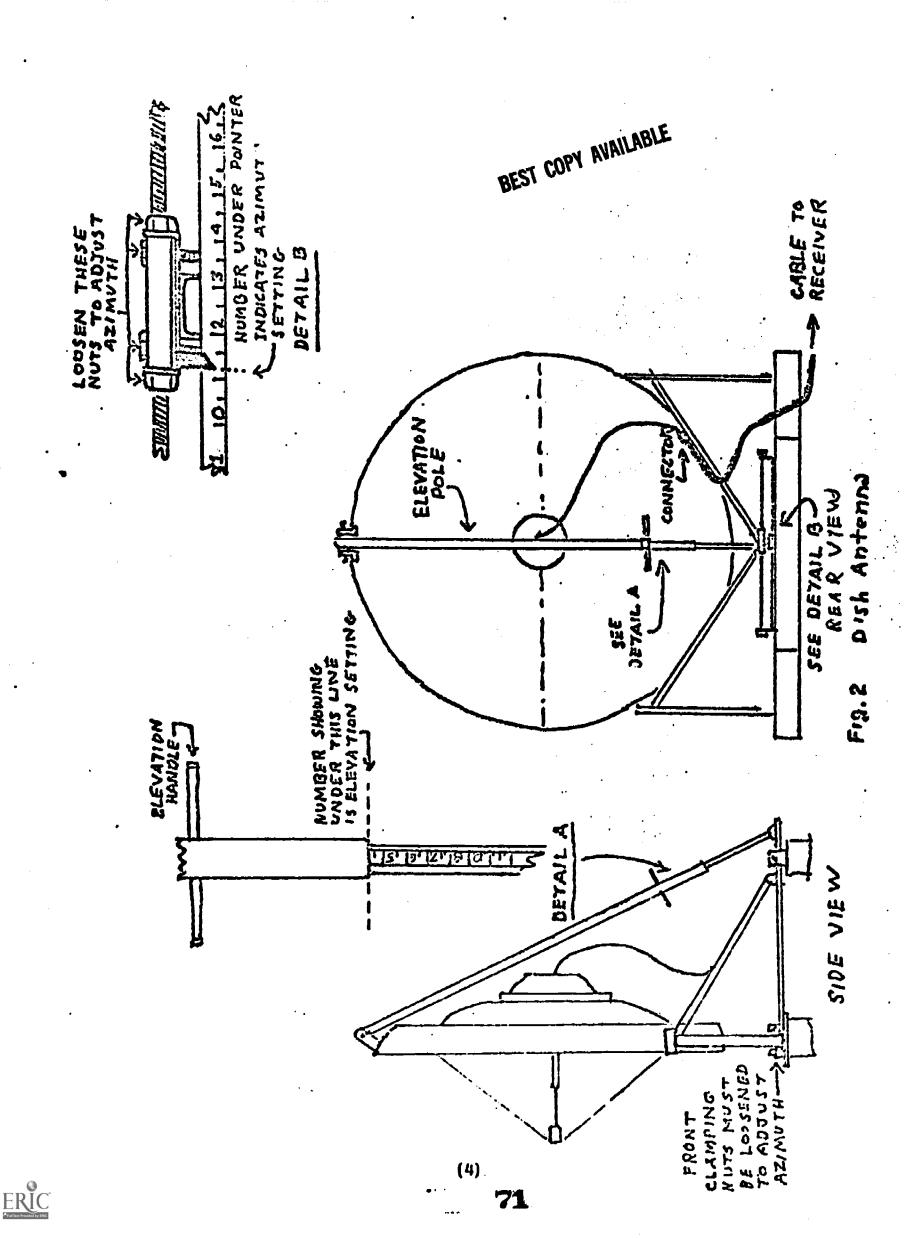
Each station consists of a ten-foot dish antenna for receiving the television signals, a helical antenna which looks something like a long corkscrew, a small receiving unit, a T.V. set, and a 2-way voice radio which is called the digital coordinator. Figure 1 shows a typical ground station.

The Dish Antenna

The dish antenna is used to receive T.V. signals from the ATS-6 satellite. The antenna itself is shaped like a shallow bowl, ten-feet in diameter. Signals from the satellite bounce off the dish and are received by a pick-up device which is mounted on a rod mounted in the center of the antenna. It is important that the antenna be pointed directly at the satellite. If it is pointed too high or too low it will receive weakly or not at all. There are two adjustments on the antenna mount. A handle on the top support (or elevating pole) can be rotated to tilt the antenna up and down, and by loosening four nuts on the rear mounting plate, the antenna can be pivoted from left to right. The site operator or utilization aide will have to make elevation (up or down) adjustments occassionally to compensate for slight changes in the satellite position. It may also be necessary to make antenna adjustments if ground freezing or thawing causes the antenna to move.

Helical Antenna

The helical antenna is used to send and receive voice signals from the ATS-1 satellite. Since the ATS-1 is in a different location than the ATS-6, this antenna is pointed in a different direction than the dish antenna. Unless the helical antenna is tampered with or is accidentally moved, it should not require pointing once it has been installed.



H.P. Receiver

H.P. stands for Hewlitt Packard, the name of the company which makes this receiver. The H.P. receiver takes the signal from the dish antenna and converts it to video for the T.V. set. On the front of the H.P. receiver is the ON-OFF switch and a signal strength meter.

The signal strength meter shows how strong a signal is reaching the receiver. When the satellite is beaming signals to Alaska this meter should read above 10. The better the signal is, the higher the meter will read. The operator should write down the meter reading during each broadcast. That way the operator can tell if signals are getting better or worse over a period of time. A lower than normal reading might mean that the antenna pointing needs to be adjusted.

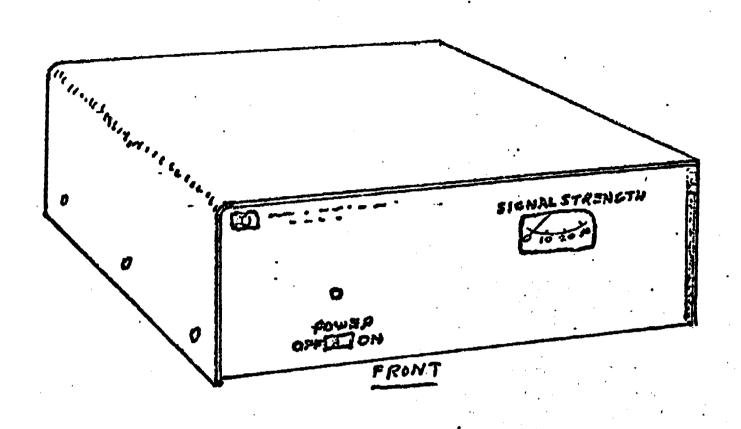
T.V. Set

The T.V. set is an RCA 25-inch color monitor receiver. This set is similar to a regular home-type T.V. except that it has several additional connectors and controls at the rear of the set. This set will be hooked up and adjusted for proper operation when installed, however, operators should become familiar with the connections and rear switch settings in case the set should be tampered with or disconnected. Operating controls are covered under EQUIPMENT OPERATION.

Audio Switchbox

Since four sound channels can be transmitted with the television picture, the audio switchbox is used to select the channel you want to listen to. There are six push button switches on the box; one for each sound channel and two





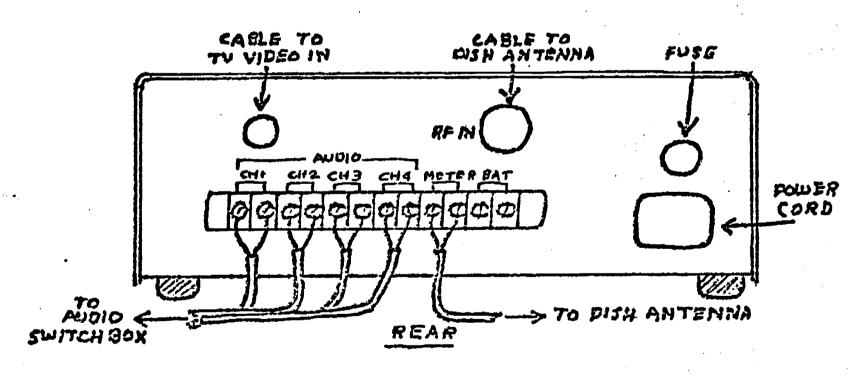


Figure 3. H.P. Receiver



spares. The spares are not used. The sound channels to be used will be listed in the program schedules, or you will be notified over the two-way radio system.

Two-Way Radio (Digital Coordinator)

The proper name for the voice transmitter-receiver is digital coordinator, however we will refer to it here as the radio, or the voice terminal. What makes this different from ordinary 2-way radio systems is that the transmitter in this one can be turned off and on from the Network Control Center in Denver, Colorado. Another thing is; whenever you transmit from this terminal a coded signal is automatically sent out to let the control center know which station is transmitting. That way if anyone is transmitting when they shouldn't, or operating improperly, the control center can turn that station off. There are many lights, push-buttons and switches on the front panel of the voice radio unit, but there are only a few controls which you must be concerned about. These are explained in the equipment operation section.

Equipment Operation

Each day before broadcasting begins the equipment should be checked to make sure that it is ready. The equipment check and turn-on should start at least 1/2 hour before the program is scheduled to start. The following paragraphs describe how each unit is checked out and adjusted. If any trouble shows up, see the "Equipment Trouble" section on page 15.

Antenna

Check the dish antenna for damage. Check to make sure the feed is O.K., f the feed is bent or damaged, the system may not work. Tighten any nuts



to see if the antenna pointing adjustments have been tampered with. Snow should be cleared away from the antenna and swept out of the dish, being careful not to damage or bend the feed. Check the cable for damage and make sure the connection is allright. If you have to adjust the antenna or if you notice anything wrong, make a note of it on the daily log.

Helical Antenna

Make a visual inspection of the antenna checking the cables and connectors, and looking for other signs of damage.

H.P. Receiver

Check to make sure all the wires on the rear are connected, and that it is plugged in. Turn the switch on. The little red light above the switch should come on and the meter should come up above zero. When the T.V. broadcast begins the meter reading should increase. If you have been keeping a record of the meter reading during each broadcast you will be able to tell if the system is operating normally. If the reading is lower than normal, antenna adjustment may be required.

Dish Antenna Adjustment

This adjustment is easier with two people; one watching the HP receiver meter while the other adjusts the antenna. (See Figure 2) Before adjusting the antenna, mark down the number just showing under the elevation adjuster, and the number under the pointer on the base plate. Turn the elevation handle to tilt antenna one degree higher (higher number showing under the elevation adjuster). Check the HP receiver meter. If the meter reading has increased,

continue adjusting in the same direction until no further increase can be obtained.

If the mater reading decreases, change tilt in the opposite direction until maximum meter reading is obtained.

T.V. Set

Check the rear connections and switches. If these are O.K., turn the T.V. on by pulling the volume control knob out. After about 30 seconds turn the brightness control up. If every thing is O.K. so far, you should see black and white speckles all over the picture tube. This speckling is noise coming from the antenna. For a check, you can turn off the HP receiver momentarily. With the receiver off, the picture tube should go blank. Turn the receiver on again. You can now turn down the brightness and volume so the class will not be disturbed while waiting for the program to begin.

Before the regular program starts, a still picture and music or voice will be transmitted to give you a chance to set the T.V. controls for the best picture and sound. Start out with the COLOR control all the way down. Adjust the CONTRAST for the best picture. Move the COLOR control up until you see colors, then adjust TINT control for the most natural colors, paying particular attention to the skin tones in the test picture. The COLOR control may be used to make the colors brighter but it is best if the colors look a little bit pale. If the T.V. is not working properly, perform the trouble shooting checklist on page 17.

Digital Coordinator

The digital coordinator is turned on by a key, this key should be kept in a safe place so that unauthorized persons cannot turn the set on. Perform the



items on the checklist which is fastened to the desk shelf on the coordinator.

A copy of this checklist is also included on page 14 of this manual.

WARNING

DO NOT PRESS "CALL" BUTTON OR

MICROPHONE BAR DURING CHECK

During the 15-minute period before the T.V. program is scheduled to begin, one of the control centers (Fairbanks, Juneau, or Denver) will make announcements concerning the time, program, sound channel to be used, and other necessary information. Details on operating procedures are described in the section entitled "Protocol and Interaction."

Protocol and Interaction

General

This section describes how the 2-way radio in the digital coordinator is to be used. Since there are sixteen Alaska schools using this system it is very important that the rules of operation be followed strictly.

WARNING

ANY STATION TRANSMITTING AT UNAUTHORIZED TIMES OR OPERATING IMPROPERLY WILL BE TURNED OFF

The voice transmitter will not operate until it has been turned on by the Denver Network Control Center. However, if the CALL button is pressed, the transmitter will turn on for about a half-second and automatically send out your station identification code. This signal will cause a light on a map of Alaska in Denver to turn on showing which station transmitted the signal.



During periods that voice transmission is authorized, Denver will send out the turn-on signal and the green ENABLE lamp on the digital coordinator will light.

Roll Call

During the 15-minute period before the regular program starts, a roll call will be taken. Certain stations called "Truth Sites" will be called first and requested to report their HP receiver meter reading: When it is time for roll call, the ENABLE lamp will come on and one of the control points (Fairbanks, Juneau or Denver) will call the roll of receiving stations. When it is time for roll call, press the VOICE button to turn the VOICE lamp on and stand by until your station is called. When your station is called, press the microphone bar and say "(station name) ready" if everything is O.K.; "(station name) trouble" if only particlly operating; and "(station name) no-go" if not working.

NOTE: You cannot transmit or receive unless the VOICE lamp is lighted.

Do not say anything more unless asked. If you have reported "trouble" or "no-go" and there is time after the roll call, the controller may call you back for more information. If you miss answering when the roll is first called, the controller will repeat missed stations after the first roll call. Do not break-in before your station is called again.

When the roll call and all other traffic has been completed, the controller will make necessary announcements concerning the program, and will announce when the T.V. transmitter is turned on. At that time you should make the necessary adjustments to the T.V. set. When the regular program begins, press the VOICE button to turn the VOICE lamp off.



ST COT WHITEHOUT Ö FIGURE 8: DIGITAL COORDINATOR COMMUNICATIONS TERMINAL 0

DIGITAL COORDINATOR

RIC*		l ype	Function	No.	Type	Function
	ت 	Lamp	Indicates transmitter can be used	14	Switch	Push button to enable data transmission and
	ت 	Lamp	Indicates unit is transmitting			reception (Not used by Alaska education statio
· ·	ო 	Lamp	Indicates unit is ready for operation	15	Switch	Controls auxiliary functions (Not traced by Alas education stations)
	ت ت	Lamp	Indicates CALL signal has been received by Network Control Center	16	Switch	Controls remote speaker (when remote speaker is used)
···	ر ا	Lamp	Indicates Network Control Center has turned off ail transmitters	12	Switch	Controls front panel speaker
<u>.</u>		c mg	Indicates error in received control signals (No significance to operator unless on continuously)	©	Lamp	Indicates when speaker is muted such as durin voice transmit and data reception
		Lamp	Indicates unit is in data transmit mode (Not	9	Knob	Controls speaker volume
(13)			used for Alaska education stations)	20	Knob .	Controls squelch point. Should be adjusted slowly from full-right, to left until noise stops
≈ 8	·	Lamp	Same as above except mode has been selected by Network Control	21	Lamps	Indicates transmit channel in use. "4" lights
0	·	Lamp	Indicates auxiliary function has been selected by Network Control (Not used for Alaska			during voice transmit, "2" lights when CALL is pushed.
·	······································	_	education stations)	22	Lamps	Indicate operation of various internal circuits (Significant only when reporting trouble)
<u>-</u>		d E	Same as above	23	Lamo	Indicates unit is turned on
		Switch	Push button to request permission to transmit. (Sends out coded signal)	24	Switch	Operated by key to turn unit on
12		Switch	Push button to switch back to normal after CALL has been pushed (CALL light must be off to	25	Jacks	For microphone plug(s)
			transmit voice)	56	Jacks	For headphone plug(s) (when supplied)
2		Switch	Push button to enable voice transmit and receive (VOICE lamp must be lighted)		-	

(13)

Interaction

When the program calls for interaction, or talk-back from your community, the host teacher or program moderator will tell you how the interaction is to be handled. In some cases the moderator may simply call a particular station for questions or comments. If your station is called, press the TALK button to the TALK lamp on, then press the talk-bar on the microphone to answer. In another case, the moderator may ask any station, wishing to call in, to push the CALL button. In this case when your station wishes to respond, simply push the CALL button. This causes your station code to be sent out automatically to the Network Control Center. Shortly after this the ACK WAIT lamp should light to indicate that your CALL has been received. Press the RESET button. You do not get an ACK WAIT light after about 30 seconds, press RESET and then press CALL again. When you receive the ACK WAIT signal, press the TALK button to turn the TALK lamp on and stand by until your station is requested to transmit.

You may be requested to transmit either by the moderator or host teacher on T.V., or by the controller calling through the digital coordinator. In some cases responses from your station will be written by the controller and handed to the host teacher or moderator, in other cases, responses will be re-broadcast directly over the T.V. In either case you will be notified as to how to proceed. Whenever possible, questions or comments should be written out before calling in. This will prevent people from forgetting parts of their questions or getting mixed-up.

When you are through with talk-back from your station, press the TALK button to turn the TALK lamp off. Sometimes time will be available, after the



T.V. program is off, for additional talk-back. In this case you will be informed either during the program or during the pre-program announcement period. Here again you must follow directions exactly and not transmit until instructed to do so.

Daily Log

Each day that broadcasts are scheduled the daily log sheet must be filled out. The log sheet is very important to the success of the experiment as it gives an indication of how the equipment is operating and may enable maintenance personnel to see troubles developing so that they can be corrected before they become serious.

A sample log sheet is shown on page 20. The notes on the log form should make the form self-explanatory. The date and time columns indicate the time the broadcast begins. On days when there are more than one broadcast, a separate entry for each one should be shown in the log. The completed log forms should be sent in to the Office of Telecommunications in Juneau every two weeks. The comments column and the back of the form may be used to add additional comments on the quality of the broadcasts or equipment condition.

Equipment Troubles

Since it is very expensive to send repairmen out to remote areas, it is very important that the operators and utilization aides at the sites make certain that a real problem exists and that the trouble is not being caused by a plug being pulled out, or a switch in the wrong position. If trouble developes, perform the checks listed on the checklist sheets for the various items of equipment (see pages 17,18,19). Additional checklist sheets are provided in the operators kit.



(15)

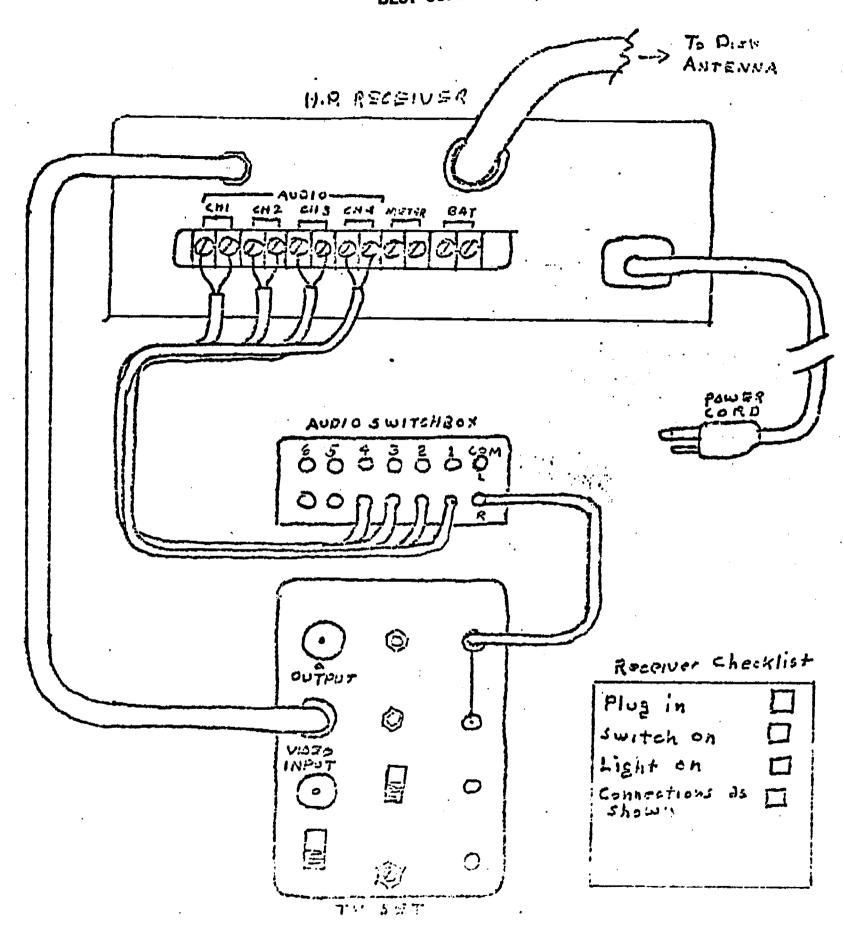
If, after performing all the checks and tests listed, you have not been able to correct the trouble, fill out the trouble report form for the defective unit. A sample trouble report form is shown on page 20. If you have a telephone, call the trouble in to one of the maintenance centers listed below. If a telephone is not available, mail the form to the center as soon as possible. If the problem is not in the digital coordinator, you may be allowed to report failures during the next roll call period. However, all trouble report forms should be mailed in even if you were able to report by phone or radio.

It is possible the maintenance center will determine that whatever is causing the trouble can be corrected by the site operators. In this case you may be sent a replacement item such as an HP receiver, switch box, or cable. If replacement items are sent, complete installation instructions for installation will also be provided. When replacement items are furnished, the defective unit should be returned immediately for repairs. A return address label will be provided so that the defective unit can be returned in the same container that the replacement arrived in.

Questions on the operation of the equipment, maintenance forms, and trouble reports should be addressed to: Terminal Maintenance, Office of Telecommunications, Pouch AC, Juneau, Alaska 99801.

If you have a problem which makes it impossible for your station to operate, you may call collect to: Juneau #465-3552. Ask for the installation and maintenance section.

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(17) 84

ERIC Public Provided by SDC

TWO-WAY RADIO CHECKLIST

EEFORE TRANSMITTING:

POWER on

VOLUME up

SQUELCH: turn right, then back until noise just stops

LOCAL switch ON

VOICE depressed and lighted

CHANNEL 4 lighted

SYSTEM READY lighted

DIACNOSTIC LAMPS except 5 and 7 lighted

WHEN TRANSMITTING:

ENABLE lighted*

TRANSMIT lighted when microphone bar is pressed

DIAGNOSTIC 5 lighted when microphone bar is pressed

CHANNEL 2 lights momentarily when CALL button is pressed

Figure 6.



(18)

^{*} Transmitter will not operate unless enabled by the Network Control Center.

ATS-6 DAILY LOG

Community

Location

Oper alors lilling out Univ. form) (Persons

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nce (5)	Its Students											-							
Audier	Adults																		
Radio	Quality (4)			-															
•	Quality (4)																		
TV Picture	Quality (3)										·								
Meter	Reading (2)																		
Program Meter	Received (1)												<u>.</u>			+	-		
Time On				-															
a,		1	•			!	į		-										

- Notes.
- (1) Yes or No
- (2) Front Panel Meter On HP Receiver 0-50
- Excellent (3) -- 22 -- 33 -- 35 --
- Not Perfect But Still O, K.

- Not Good But Can Watch Hard To Watch Unuseable ?
- (4) 1. Good
- Slightly Noisy Or Distorted Noisy Or Distorted But Can Understand
 - Hard To Understand
 - **Cannot Understand**
- (5) Number Of Each Watching
- Required. Use Hack of Form If More Adjustments Main, More Detailed Description Of T.V. Or Sound If (6) Equipment Problems, Antenna

Room Is Needed For Comments.

(JO)



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APPENDIX D. COMMUNITY PROFILES FOR CANDIDATE CASE VILLAGES



APPENDIX D

COMMUNITY PROFILES FOR CANDIDATE CASE VILLAGES

The source for the following Village Profiles is:

"Community Profiles in Alaska for the Joint Federal-State Land Use Planning Commission", by Art Patterson, Resource Planning Team, October 1973.

A source of confusion may be the "Native Enrollment" entry. It refers to the number of Native Alaskans who claimed the site as their residence for rights and benefits under the Land Claims Act.



1

Native Corporation Coyon Limited

MANPONER -- Employeent -- mining at Hog Miver.

ALLAKAET

PUBLICATION

Including Alicha Local Tractional

Flue, Dist: Cld 18 Now 15 Census Division Vision-Voyesik

Addinistration State Operated Grades offered 1-8 Employed (1971-17) 42 Including Alaina:

Character attenties-sacratties

Water source/system/quality anal Serface - stvor, and community will -- drilled in 1963, since Successor system/disposate frozen and mut in mee.

React: Consolity power; State school has its own generator,

Secretary 21dg. Yes Chareles 1

Episcopal

ing: USPHS Premise and Hore Environmental th Survey available on 28 houses.

council and one school serves both commaes; their social life is intermingled.

TRANSFORTATION-CONDUNICATION Fairbanks approx. 700 mi. to the SE.

Hazards: Flood hazard is high; stream overflow, permafrost, ercaton.

CENERAL--

Class Civ. Elev 641 Beacon/Ltg
Lgth 6 Surf 3,000
Geaunt
Bush plane based/corrunity 30 Airport: Loc/co-minity Adl. 8%

Lend: Noad/trail/rail/connections Winter trails to Eughes and Hubits, and to Bettles.

Bange service in open season. A sirgle barps tily is made then to take advantage of the high water during June. Water: Barge/ferry/harbor/dock

Telephone-statewide NO Radio Trans. call ltr:

STATE/FID. ACCT. 6 MILITARY State Schoot, Pest Office

Compactation (commutty) Store, William's story

Historical: Episcopal mission established in 1906. A Post Office was established in 1925, A flood occurred in 1964, when the water reached a peak of three Declared eligible, Notive Claims Settlement Ac, 12/18/71. feet above the boardwalk.

FISHENIES - Schafatence: Craylfag. pike, salmon, sucker, sheefish, whiteflsh. None reported or considered likely to be found. HINERALS-Metallie:

Coal: None reported or considered likely to None reported or considered likely to be found. be found.

Mc ... se : allte:

Petroleun: Name known; in eastern Kobuk Cretaceous province; not evaluated.

Entlen, messe, suskat, porcupine, warel, wolf, wolverine, tall brown bear, beaver, caribou, red WILDLIFE- Substatence: Black/ sheep, ducks, geese, ptermisan/ fox, hare, Isud otter, lyne, aptuce hin.

PORT STS--WASHANIES - Substatence: Gerries (blue, gras, s.b. ov., 1771); Free Hys, wild throats, firther word for fuel, howeing, and how

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	ocessing.	ulactes of 1350°s vir 115 ta 195	VISHERINSCompressal fahing		FORESTSVEGETATIO:1
	MANTONER Employment, commercial fishing and sea food processing.	GENERALThingit Indian willage Histed as "Angoon" with a por 18th Census, in 1880. The population was reduced in the late was established with a fish reduction plant. Population was 1939. A post office was established in 1918.	Winerals Metalife: Rone reported or considered likely to be found.	Nonmerallie: None reported. Conl: None reported or considered likely to be found.	Petrolega: None known; gcologically not fuvorable.
Selaska Native Region.	NOUSING: USPHS Premise and environmental health survey available on 63 houses. Ten houses completed in 1970-71, BIA improvement Program. Declared eligible, Mative Claims Settlement act. 12/13/71.	Airport: Loc/commuty (Commune) Class Elev Rescen/Lig Lgib & Surf Hely 10,000, Unter Lush place balan/community Land: Ecol/craff/commetty	Water: Surge/ferry/harbor/dock On Alaska marine Wighway System. Radio Trans, eall ler:	Telephene-statewide Ves STATE/FED. AFFU. S MILITARY Post Office, State School	William - William Commence
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AEST CO.	MANTONER	Primary Occupations. Surveyed Population	Total 10tal En- Unca- ployed ployed ployed Prof/Tech/Mgt, 6 6 0	36 4 7 7 7 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1	Structural Structural Miscellancous Not Identified 1 0 1	GENERAL: Historical: Founded about 1910 w to supply the stains operations of tice was established in 1914. Hazards: Flooding high; ite jams	Declared eligible, Native Claims MIKERALS Motallic: None reported.	"innetallic: None reported.	Coal: None reported or considered likely to be found.	Petroleur: None known; geologically not favorable.
	Californ	Nousing: USPHS rental Health St		-	Airport: Luc/cornunity Adj. Class Civ. Plov 86 Reacon/Lig Both Ligh 5 Surf 5,000 Cravel	Land: Road/trail/rail/connections	Nater: Barge/ferry/harbor/dock Barge service	Radio Trans. call ltri Telephone-statewide Yes	STATE /FEB. AGEN. S. MILITARY State school, Post Office, FAA, USAF, DOT.	Charter service (3) N.C. Store Kuskokutm Sales Antak Lodge
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ed about 1910 when a trading store was located here ng operations at Tuluksak and Aniak Rivers. A Post shed in 1914.

high; ice jams, streum overflow; permairost.

Native Claims Settlement Act, 12/18/71.

	Grayling, pike, salron, shceffsh, trout, whitefish.
	-
unetallie: None reported.	dia no long salah sa
	Willilly Substatence Black/brown bear, beaver, caribou,
s found.	marten, ruce, and exter, type, marten, ruce, mink, makrat, fraction, wasel, volverne, wolf;
!	grane, genee, prartigan, spruce hen/
uvorable. None known; geologically not be be uvorable.	Points Visitation Substatence Berries (blue, black, cran, salaun), wild wearthles

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	Kantoner-		·_			•	CEMURAL Historical: Russian Mission founded here in 1891. Hazards: Ice jam, coastal flooding; permafrost. Declared eligible, Native Claims Settlement Act, 12/18/71.		•	· O tribusti	Minister Copper prospects; lead, silver, urantum sinerals also present.	Nume in the Rose reported.		Cont. None reported of considerer linely to be found.	Petralena: None known; geologically not favorable.	
ALUK Caliete N - KUSKOKVIM) Corporation		Housing: USFHS Premise and Home Environ- mental Health Survey available on 10 houses.	Housing: BiA Improvement Program, 10 houses in 1970.				TRANSPORTATION-CONDUNICATION No alrectly Adriort: loc/community Class Liet & Surf	Bush plane based/community Land: Road/trail/tall/conucctions		Nater: Barge/ferry/harbor/dock		Radio Trans. call ltr: KXF-67	Telephene-statewide 543-2102	State School, Post Office	CONTROL TENUSTREAL	•
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AST CO.	MANTONER—Estimate Benloyment Construction 24 Severment 8 Min./Processing 115 Trade 14 Trade 15 Other 199		GENERAL Originally named "Fish Egg" for nearby "Craig Millar" for a cannery owner. A post offition in 1939 was 231. Declared eligible, Native Claims Settlement Act	MINERALS Metallic: None, reported.	Non-realife: None reported or considered likely to be found. Cont: None reported or considered likely to be found.	Petraleur: None known, geologically not favorable.
Sealnaka Native Region	Netical/dental. Tublic Realth dectors and dentifits visit on a regular basis. A resistered nurse is pernanently located in toun. Local Police Department. Local Fire Department (volunteer)	TRINGESTATION-ROLL CALLOS	Afrect: Loc/community Seaming Claca Flow Sec 10/6:15 Lith & Surf Price 10,000 Farer Evish plane bases/community Saleduled rervices Land: Read/trail/rall/connections Local read to Mineasis, 8 min	Water: Barge/ferry/harbor/deck On Northe (state) Welmay System. The City Float-less ins unleading space and covered sterage for large frelikt boats.	Radio Trans, call itriffyll Kerchikan radio station. Telephene-stateside No STATT/ITD. Arm. 1 MITTING Post office, Gity School & Profetrate	Craigs economy is based largely on the flabing and wood products industry.
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MANTONER Labor Marker Pounter for	Estimated Employment Agriculture Hining Construction Manufacturing Process Transportation, Communication, and Utilities Transportation Finance Services Government GENERAL Historical: Founded in 18 Barnette. The town began north after gold was cliste became the commercial and A Post Office was establib		MAERALS— Metallie: Nonretallie:	Coni: Petroleun:
NKS Native Corporation .	Fairbanks is Alaska's second larrat city a financial, transportation, governmental, and cultural center for the interior. The city and area provide a year-round variety of recreational facilities and opportunities. COMMITTY FACILITIES: Hospital, recently corpleted, four clinics; libraries, 30 Corpleted, four clinics; libraries, Alaskaland choositien. Alected mear E. Irbanks, Altport; loc/escanalty 3.5 mi. 350 Class Civ. Elev 4:4, Beacon/Ltg, NA. Class Civ. Elev 4:4, Beacon/Ltg, NA. Class Civ. Elev 4:4, Beacon/Ltg, NA. Lgth 6 Suif 19, 800	Bush plane 3.3 //corrunity Yes Also, Matro, and Phillips Held. Land: Road/trail/tail/connections Highwas Alasia, Elliott, Steese, Anchorage, and Fatthanks. Kallroad: Alaska KK to Andorage - Seward, the Latitud and a watery of trusking and attitud these provide adequate adapting and	private wareherers have facilities available. <u>Exployive</u> : Four radio and three T.V. stations.	STATE/FFD. AGEN. & MILITARY A variety of State and Federal agencies service the area. Ft. Mainstight in adjacent. St. Eleison is 20 mi. from the city. Cover of Martine the city. Cover of Martine the city. Major employment is in neu-manufacturing military, and covilien sepport; ed.; research; lawy. const. and reducent, trans., retail trade; personal services, communication. Principal constructuring is in small mining.
PAIRSANKS	101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	yl deligation		STATE/FED. AGEN. & HILITARY A variety of State and Federal agencies service to and 12 STATE/FED. AGEN. & HILITARY A variety of State and Federal agencies service to and Federal agencies service to and Federal agencies service to an Fig. Elelson is 20 ml. from the city. Compared from the city. Rajor empowers of in non-manufacturing military, and C. Non Carlier sepport; ed.; research; have, can C. Non Carlier Services, communication. Principal conversation, principal conversation; beautifulg is in small mining.

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XIONITY.

	MANPONER Estimated Employment Construction Government Mig./procensing Trade Trade		CENERAL-Tiingit Indien village re side of Shimaku Inlet. A cannery Pepulation vas 261 in 1899; 19 in in 1882.	Winceres	Noncetallie: Nuch high calcium litaries.	Coals: None reported or considered be Tound.	Petrological None known; geologicall
Scalaska Native Region	Peclared eligible Native Claims Settlement Act, 12/13/11 Medical/Dunni, PHS dectors and dentists Wiste on a regular basis.	EANSIAMINA-ROTAMETOTSKARI	Airport: Leefeernunity Adf. W Class Slew -0- inceen/Ltg. Lpth & Suri Prints Con Tuch place Susciferally that Land: Seed/trail/fall/consetions Connected to Polite and Craft by local roads	Naterr Barge/Larry/harber/dock Available deck space at connery eperation.	Radio Trans, call ltr. Recention from Netchikan. Telephone-statewide lts	STATEL/FIDE, AGEN. & HILITANY Foot office, Gity School, Units Clinic	The encount is then rejearing on the fishing and wood presents industry.
NOUNCER .	Lat. 512373/ Long. 133"06'# Two. 7/ 0030/ 515 Ser. Const. 3. Con. 7/ 0010 of Prince of Waler Inches 5 -1. 7/ 00 Oralls, New. Arch, 215 ate mi. from Jurana.	Total 1962 1952 1952 293 Total 1966 1953 1953 293 Matthe Entellement 1-1-74 Enterprised 203 Clatered 511	Covernors Local 1 of 1 of 100 Coroson 1 of 1 of 100 Elec. Pietr 01d 1 Now 1 Consus Division leifer & of Wiles	Authoritation Circongred Grades offered Las	Proceedings areast this Committee tracestry training that Paret fracestry training that Committee that	Space of tribution region Space of tribution (disposition) Section of state of the model of the contribution of the contribu	Pewarr Andilable from namery.

· <u>····································</u>	FISHERIES Commercial fishing and seafood processing			F035515
	### 100 G	1 b: 6.		17 40 40 40 40 40 40 40 40 40 40 40 40 40
	Minchille: None reported	Nonmerallie: Much high calcium linestone in area.	Conlin None reported or considered likely to be Tound.	Perrotein: None known: neolepteally not

Correcting 218 of Tes Churches Ver

TANANA	Ate Years Distribution, of Surveyed Selection	e 12 3	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	36-49 16 9-12 15	Unknown	Hazards: Strong overflow and permafrost. Harorical: the junction of the Yukon and Tanana Rivers had been a long or that the factor is contained a long or that is contained and the feet permitted to the feet permitted at the feet factor of the feet permitted at the feet factor of the feet permitted at the feet factor of the feet facto	FISHERIS Size, stende Grayling, pire, stend, sheefish, whitelish, staker.	Black bear, believer, caribou, red	3	Superfices, cranherines, timer (5 user for faction)	
HANTOUER	Pefeary Cormpations, Surveyed	Category let at 1 therefored ployed ployed of \$0.50 at 1.		Enchine Irades Ench Work Tructural Miscellancous	not ldentified 7 0 7	GEMERAL: Hazards: Strong overflow and permafrost. Historical: the function of the Yukon un a long without betastiched indian train of the bar person (1999) Alasa (correction) by a regar fitzelon townded. (1897) (1894) Pert of the withfulshed. (1892)	Minerals	Monnetallic: None reported at considered likely to be found.	Coal: None reported or considered likely be found. Petroleum: None known; in Lower Tenena		
	Doyon Linited TANAMA Native Corporation	Housing: USPHS Premise and Home Environmental Health Survey available on 55 houses. Declared eligible, Native Claims Settlement Act, 12/18/71.			Airport: Loc/community .9W Class Civ. Elev 22% Beacon/Lig Both	1 1 2 44 44	Water: for e/ferry/harbor/dock Earge service (Yutama)	Radio Trans. call ltr:	Telephone-statewide Yes STATE/FED, ACEN, 5 MILITARY State School, Areory, Post Office, USPHS Nospital,	•	N.C. Store Cafe
		Lat. 65°10'N Lone, 150°64' Tvn. 47 Cage, 228 Nor. Latebanks	Mear Junction of Tanana-Noton Mivers, Nowrince-Hodzana high, Hoper Arica	1950 1281950 144 1970 411 Total Latter, 1970 179	Engrated 3.9 Stated 572	Local learned There lity, 1961 Forcest and Characters Tornelle Correct Luty/Ang. 1655 Elec. District Luty/Ang. 165 Consus Division Null mercycluk	Administration Truto Trented Grades offered 1-12 Frolled (1971-74) 770	COUNTRY UTILITIES-FICILITIES	Water source/system/quality analytem to the cold, aster hard and allry but the control of solitable for drinking, there wells are of poor quality. Sere age system/disposals	Frivies and Septifucions at indvalinab hores. Forest Avoilable to all horses through a printe source.	Certainty Flats Yes Chatches 2



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